

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 02:50:53 ; Search time 1614.64 Seconds  
(without alignment)  
722.185 Million cell updates/sec

Title: US-09-974-974-1  
Sequence: 32-  
1 ggccuggccugaaggagugaaugacucuu 32

Scoring table: IDENTITY\_NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters:  
Minimum DB seq length: 0  
Maximum DB seq length: 60

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_ntc:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1	15.8	49.4	BX655160	BX655160 Arabidopsis
c 2	15.4	48.1	AA947665	AA947665 og12d02_s
c 3	15.2	47.5	AA861970	AA861970 ol45d12_s
c 4	15.2	47.5	DRIM24T	DRIM24T AU742081 Danio rerio
c 5	15.2	47.5	BZ770511	BZ770511 SALK_1434 BH770391 LLMG_Fag16
c 6	15	46.9	58	BH770391
c 7	14.8	46.2	57	CR110068 Forward s
c 8	14.8	46.2	60	CD948943 SAH_46_Ge
c 9	14.6	45.6	32	AZ650179 IM0520P11
c 10	14.6	45.6	42	CF920754 AV933578
c 11	14.6	45.6	46	AV933578 AV933578
c 12	14.6	45.6	52	AW246952 2822591.5
c 13	14.6	45.6	52	CR144482 Forward s
c 14	14.6	45.6	57	AZ819538 2M0091A14
c 15	14.4	45.0	46	AA181388 p4f11.s
c 16	14.4	45.0	46	CR390805 Arabidopsis
c 17	14.4	45.0	51	BF308407 601890722
c 18	14.4	45.0	52	AA11932 pol02_s
c 19	14.4	45.0	54	AW781356 sk6912_y
c 20	14.4	45.0	55	BF748176 601571564
c 21	14.2	44.4	42	AJ7709426 AJ7709426
c 22	14.2	44.4	50	AU107710 AU107710
c 23	14.2	44.4	52	BE321553 NFO34G091
c 24	14.2	44.4	54	CK34B290 LeCERFLP0

#### ALIGNMENTS

Perfect score: 32	Title: US-09-974-974-1	Scoring table: IDENTITY_NUC	Scoring table: Gapop 10_0 , Gapext 1.0	Scanned: 32822875 seqs, 18219865908 residues	Total number of hits satisfying chosen parameters: 238946
<hr/>					
RESULT 1					
BX655160/c					
DEFINITION BX655160					
Arabidopsis thaliana T-DNA flanking sequence GK-587C03-021291, genomic survey sequence.					
VERSION BX655160.1					
KEYWORDS GSS					
ORGANISM Arabidopsis thaliana (thale cress)					
SOURCE Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; Spermatophytina; Magnoliophytina; eu dicots; eudicots; eudicots II; Brassicaceae; Arabidopsis; rosids; euroids II; Brassicaceae; Arabidopsis.					
REFERENCE 1					
AUTHORS Li,Y., Rosso,M.G., Strizhov,N., Viehoever,P., and Weisshaar,B.					
TITLE GABI-Kat SimpleSearch: a flanking sequence tag (FST) database for the identification of T-DNA insertion mutants in Arabidopsis thaliana					
JOURNAL Bioinformatics 19 (1), 1441-1442 (2003)					
MEDLINE 22755829					
PUBLMED 12874060					
REFERENCE 2					
AUTHORS Rosso,M.G., Li,Y., Strizhov,N., Reiss,B., Dekker,K. and Weisshaar,B.					
TITLE An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics					
JOURNAL Plant Mol. Biol. 53 (1-2), 247-259 (2003)					
MEDLINE 23117147					
PUBLMED 14756321					
REFERENCE 3					
AUTHORS Strizhov,N., Li,Y., Rosso,M.G., Viehoever,P., Dekker,K. and Weisshaar,B.					
TITLE High-throughput generation of sequence indexes from T-DNA mutagenized Arabidopsis thaliana lines					
JOURNAL Biotechniques 35 (6), 1164-1168 (2003)					
PUBLMED 14682050					
REFERENCE 4					
AUTHORS Li,Y., Strizhov,N., Rosso,M.G. and Weisshaar,B.					
TITLE Direct Submission					
JOURNAL Zuechtungsforschung, Carl-von-Linné-Weg 10, Koeln, 50829, Germany					
COMMENT This sequence has been recovered from the left border of the T-DNA. It indicates an insertion within the locus defined by BAC clone K18L3. Details on the protocols used for generation of the sequence are described in References 1-3. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program					

designated 'GABI'. Information on line availability can be found at: <http://www:mpiz-koeeln.mpg.de/GABI-Kat/>.

FEATURES  
source 1. 55  
/organism="Arabidopsis thaliana"  
/mol\_type="genomic DNA"  
/strain="Columbia 0"  
/clone="K-587c03-01291"  
/clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
/ecotype="Col-0"  
/note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pGBII (GenBank accession number: AY529716). The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed."

ORIGIN

Query Match	49.4%	Score 15.8;	DB 9;	Length 55;
Best Local Similarity	51.3%	Pred. No. 6.5e+04;		
Matches	14;	Conservative	6;	Mismatches 7;
Qy	6 UGGCCUGAUGAGUGAGUGAGUCUUC 32			
Db	47 TCGACTATGAGCGAGAAATTCTC 21			

RESULT 2  
AA947665  
LOCUS AA947665  
DEFINITION og32d02\_s1 NCI CGAP GC4 Homo sapiens cDNA clone IMAGE:1588035\_3,  
similar to TR:Q13539 MARTNER TRANSPOSEASE.; mRNA sequence.  
AA947665  
EST.  
AA947665.1 GI:3108918  
Homo sapiens (human)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 43)  
<http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgbabs@mail.nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
Emmett-Buck, M.D., Ph.D.  
CDNA Library Preparation: M. Bento Soares, Ph.D.  
DNA Sequencing by: Greg Lennon, Ph.D.  
Clone distribution by: Washington University Genome Sequencing Center  
Found through the I.M.A.G.E. Consortium/LNLL at:  
[www.bio.llnl.gov/bbrp/image/image.html](http://www.bio.llnl.gov/bbrp/image/image.html)

FEATURES  
source 1. 43  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="Taxon:9606"  
/clone="IMAGE:1588035"  
/tissue\_type="pooled germ cell tumors"  
/lab\_host="DH10B"  
/clone\_lib="NCI CGAP GC4"  
/note="Vector: PT730-Pac (Pharmacia) with a modified  
Polylinker; 1st strand cDNA was prepared from 3 pooled  
Sperm cell tumors, and was then primed with a Not I -

oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTR3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN

Query Match	48.1%	Score 15.4;	DB 1;	Length 43;
Best Local Similarity	76.5%	Pred. No. 9.2e+04;		
Matches	13;	Conservative	3;	Mismatches 1;
Qy	11 UGAUGAGAGUGAGUGAGC 27			
Db	3 TCATGAGAGGGATGAGC 19			

RESULT 3  
AA861970/c  
LOCUS AA861970  
DEFINITION o15d12\_s1 NCI CGAP HN3 Homo sapiens cDNA clone IMAGE:1485623\_3,  
similar to gb:Z19574\_rnai KERATIN, TYPE I CYTOKERELAT 17 (HUMAN);  
mRNA sequence.  
AA861970  
EST.  
AA861970.1 GI:2954449  
Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 48)  
NCI/NIDR-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute / National Institute of Dental Research,  
Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgbabs@mail.nih.gov  
Tissue Procurement: John Ensley, M.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-ACAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)

Trace considered overall poor quality  
Insert Length: 1607 Std Error: 0.00  
Seq primer: -40m3 fwd. ET from Amersham  
High quality sequence stop: 1.

FEATURES  
source 1. 48  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="Taxon:9606"  
/clone="IMAGE:1485623"  
/tissue\_type="squamous cell carcinoma from base of tongue"  
/lab\_host="SOLR (kanamycin resistant)"  
/clone\_lib="NCI CGAP HN3"  
/note="Organ: tongue; Vector: Bluescript SK-; Site\_1:  
ECORI; Site\_2: XbaI; Cloned unidirectionally. Primer:  
Oligo dT. Average insert size 1.0 kb. 5' adaptor sequence:  
5' GAATTCGCGCACGAG 3' 3' adaptor sequence: 5'  
(GA)10ACTAGTCCTCAAGTTTCTTCTTCTTCTT 3,"

ORIGIN

Query Match	47.5%	Score 15.2;	DB 1;	Length 48;
Best Local Similarity	46.4%	Pred. No. 1.1e+05;		
Matches	13;	Conservative	7;	Mismatches 8;
Qy	4 CCUGGCCUGAUGAGAGUGAGCUUU 31			
Db	36 CCTTGCTCTGATGCAATAAGCTCTGT 9			

GenCore version 5.1.6  
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nucleic - nucleic search, using sw model

on: October 31, 2004, 01:32:47 ; Search time 202.305 Seconds  
 (without alignments)  
 830.337 Million cell updates/sec

File: US-09-974\_974-1  
 Effect score: 32  
 Sequence: 1 ggccuggccugcugagagaugagauagcucuc 32

Scoring table: IDENTITY\_NUC  
 Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 4135388

Maximum DB seq length: 0  
 Minimum DB seq length: 60

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

abase :

N\_Geneseq\_23Sep04:\*

1: Geneseqn1980s:\*

2: Geneseqn1980s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

#	Query	Score	Match Length	DB	ID	Description
1		32	100.0	6	AAL40446	Aal40446 Maxizyme
2		21.4	66.9	33	AAL40448	Abl40448 Maxizyme
3		17.8	55.6	60	ABN44095	Abr44095 Human sp
4		17.4	54.4	29	AAT16986	Aaa16986 Aryl hydrolase
5		17.4	54.4	40	AAL40455	Aal40455 Maxizyme
6		16.6	51.9	30	AAZ32140	Aaz32140 Human PRC
7		16.6	51.9	30	AAZ89576	Aaz89576 Human PRC
8		16.6	51.9	30	AAZ89588	Aaz89588 Human PRC
9		16.6	51.9	30	AAA46937	Aaa46937 Probe us 67
10		16.6	51.9	30	ADJ58635	Adj58635 Human PR
11		16.4	51.2	27	ABs66252	Ab66252 Anti-human IgG
12		16.4	51.2	45	AAT96613	Aat96613 Cyclitol
13		16.4	51.2	55	ABN47364	Abn47364 Human sp
14		16.2	50.6	39	AAT4276	Aat4276 Bacteriorhodopsin
15		16.2	50.6	39	AAZ53588	Aaz53588 Soluble A
16		16.2	50.6	47	AAZ261949	Aaz261949 Human mAb
17		16.2	50.6	51	AAF82327	Aaf82327 RAR-Gamma
18		16.2	50.6	60	ABN47364	Abn47364 Human sp
19		16	50.0	29	AA19290	Aaa19290 Integrin
20		16	50.0	34	ADD28488	Add28488 Escherichia
21		16	50.0	34	ADD29465	Add29465

## ALIGNMENTS

No. is the number of results predicted by chance to have a score greater than or equal to the score of the test being printed, and is derived by analysis of the total score distribution.

SUMMARIES						
Query		Match		Length	DB	ID
No.	Score	No.	Start	End		Description
1	32	100.0	3.2	6	AAL40446	Aal40446 Maxizyme
2	21.4	66.9	3.3	6	AAL40448	Aal40448 Maxizyme
3	17.9	60.6	6	ABN40985	Abn40985 Human sp	
4	17.4	54.4	2.9	2	AAL16986	Aal16986 Ary1 hyd
5	17.4	54.4	4.0	6	AAL40455	Aal40455 Maxizyme
6	16.6	51.9	3.0	2	AAL232140	Aal232140 Human PRC
7	16.6	51.9	3.0	3	AAL289576	Aal289576 Human PRC
8	16.6	51.9	3.0	3	AAL289588	Aal289588 Human PRC
9	16.6	51.9	3.0	3	AAA46937	Aaa46937 Probe usp
10	16.6	51.9	3.0	10	ADJ58635	Adj58635 Human usp
11	16.4	51.2	2.7	6	AAT66252	Aat66252 Anti-human
12	16.4	51.2	4.5	2	AAT96613	Aat96613 Cyclitor
13	16.4	51.2	5.5	4	AAS14065	Aas14065 Vector p
14	16.2	50.6	3.9	2	AAY454276	Aay454276 Bacterio
15	16.2	50.6	3.9	2	AAX55358	Aax55358 Soluble f
16	16.2	50.6	4.7	3	AZ269149	Az269149 Human maf
17	16.2	50.6	5.1	2	AAF82327	Aaf82327 RAR-Gamma
18	16.2	50.6	6.0	6	ABN47364	Abn47364 Human sp
19	16	50.0	2.9	2	AAL19290	Aal19290 Integrin
20	16	50.0	3.4	10	ADD28488	Add28488 Escherichia
21	16	50.0	3.4	10	ADD22010	Add22010 Escherichia

FT /note= "Forms a double-stranded region with nucleotides 3  
FT -2 of sequence AAL40447"  
FT XX JP2002119283-A.  
PN XX  
XX PD 23-APR-2002.  
XX FF 13-OCT-2000; 2000JP-00313320.  
PR XX 13-OCT-2000; 2000JP-00313320.  
PA XX (DOKU-) DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO.  
XX DR WPI; 2002-483792/52.  
XX PT A nucleic acid enzyme which has selective and effective eradicating activity towards harmful cells by acquiring cleavage activity of a specific target RNA by recognition of the other RNA molecule.  
PS XX Claim 2; Page 2; 17pp; Japanese.  
CC The invention relates to a nucleic acid enzyme with modifiable RNA cleavage activity. More specifically the invention relates to a nucleic acid enzyme, trans maxizyme, which has selective and effective eradicating activity towards harmful cells by acquiring cleavage activity of a specific target RNA by recognition of the other RNA molecule. The enzyme of the invention is useful for cleaving target RNA and is useful in treating diseases caused by the target RNA. This polynucleotide sequence represents the maxizyme-constituting RNA molecule T-MzR relating to the invention.  
XX Sequence 32 BP; 5 A; 7 C; 11 G; 0 T; 9 U; 0 Other;  
Query Match 100.0%; Score 32; DB 6; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.00034;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GGUCGUAGGAGAUAGAGGUUC 32  
Db 1 GGUCGUAGGAGAUAGAGGUUC 32

RESULT 2  
ID AAL40448 standard; RNA; 33 BP.  
XX AAL40448;  
AC XX  
DE 19-SEP-2002 (first entry)  
XX DE Maxizyme-constituting RNA molecule B-MzR.  
XX Enzyme; modifiable RNA cleavage activity; maxizyme-constituting RNA; trans maxizyme; B-MzR; ss.  
XX OS Unidentified.  
XX FH misc\_binding  
FT FT Location/Qualifiers  
FT FT 1. .9  
FT FT /\*tag= a  
FT FT /bound moiety= "Bcl-2 mRNA"  
FT FT /note= "Forms a double-stranded region with nucleotides 19-11 of sequence AAL40451."  
FT misc\_binding  
FT FT 12. .19  
FT FT /\*tag= d  
FT FT /bound moiety= "b-MzL RNA"  
FT FT /note= "Forms a double-stranded region with nucleotides 17-10 of sequence AAL40449."  
FT misc\_binding  
FT FT 14. .19  
FT FT /\*tag= b  
FT FT /bound moiety= "B-MzL RNA"  
FT FT /note= "Forms a double-stranded region with nucleotides 20-15 of sequence AAL40449."

FT misc\_binding 20. .33  
FT /\*tag= C  
FT /bound moiety= "BCR-ABL mRNA"  
FT /note= "Forms a double-stranded region with nucleotides 14-1 of sequence AAL40453"  
XX PN JP2002119283-A.  
XX PD 23-APR-2002.  
XX PR 13-OCT-2000; 2000JP-00313320.  
XX PR 13-OCT-2000; 2000JP-00313320.  
PA PA (DOKU-) DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO.  
XX DR WPI; 2002-483792/52.  
XX PS Page 2; 17pp; Japanese.  
CC The invention relates to a nucleic acid enzyme with modifiable RNA cleavage activity. More specifically the invention relates to a nucleic acid enzyme, trans maxizyme, which has selective and effective eradicating activity towards harmful cells by acquiring cleavage activity of a specific target RNA by recognition of the other RNA molecule. The enzyme of the invention is useful for cleaving target RNA and is useful in treating diseases caused by the target RNA. This polynucleotide sequence represents the maxizyme-constituting RNA molecule B-MzR relating to the invention.  
XX Sequence 33 BP; 6 A; 5 C; 12 G; 0 T; 10 U; 0 Other;  
SQ Query Match 66.9%; Score 21.4; DB 6; Length 33;  
Best Local Similarity 95.7%; Pred. No. 14;  
Matches 22; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 GGUCUGGCCUGAUGAGAGAGGUUC 23  
Db 1 GGUCUGGCCUGAUGAGAGAGGUUC 23  
XX RESULT 3  
ID ABN44085 standard; DNA; 60 BP.  
XX AC ABN44085;  
XX DT 15-JUL-2002 (first entry)  
XX DE Human spliced transcript detection oligonucleotide SEQ ID NO:16833.  
XX KW Human; mouse; rat; splice transcript; detection; RNA transcript;  
KW splice variant; transcriptome; Oligonucleotide library; ss.  
XX OS Homo sapiens.  
XX PN WO200210449-A2.  
XX PD 07-FEB-2002.  
XX PP 20-JUL-2001; 2001WO-IB001903.  
XX PR 28-JUL-2001; 2000US-0221607P.  
PR 02-MAY-2001; 2001US-0287724P.  
XX PA (COMP-) COMGEN INC.  
XX PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

i FastDB parameter file  
; Created by tport on Mon 1 Nov 104 16:34:33 PST.

Query-File-Name US09111292.seq  
Query-Sequence-Name-or-Number US-09-111-292-6  
File-to-Search 1.1099  
File-to-Search US09111292.seq  
Search-Name us-09-111-292-6  
Similarity-Matrix Unitary  
Number-of-PAMS 150  
Threshold-level-of-similarity 100  
Ktuple 4  
Mismatch-penalty 1  
Joining-penalty 30  
Cutoff-score 1  
Randomization-group-length 0  
Number-of-randomizations 0  
Translation-frame 0  
Window-size 500  
Gap-penalty 5.00  
Gap-size-penalty 0.33  
Time-to-submit-batch-job none  
Number-of-initial-scores-to-save 2  
Number-of-optimized-scores-to-save 20  
Number-of-alignments-to-save 2  
Display-annotations No  
Display-context 50  
Notify-upon-completion Yes  
Number-of-sequences-to-collect 13  
Number-to-save-in-indirect-file 13



Qy 61 UUCGAAACCGGGACUACAAACCAAC 88  
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 Db 61 TTCTGAAACGGGCACTACAAAAACCAAC 88

RESULT 12  
 AX138489 LOCUS AX138489 142 bp RNA linear PAT 30-MAY-2001  
 DEFINITION Sequence 50 from Patent EP1097993.  
 VERSION GI:14274385  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 artificial sequences.

REFERENCE 1 Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.  
 AUTHORS Functional ribozyme chimeric molecules capable of sliding  
 TITLE Patent: EP 1097993-A 50 09-MAY-2001;  
 JOURNAL Secretary of Agency of Industrial Science and Technology (JP);  
 Taira, Kazunari (JP)  
 FEATURES Location/Qualifiers  
 1. .142  
 /organism="synthetic construct"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32630"  
 /note="the nucleotide sequence of CPP Rz2"  
 ORIGIN

Query Match 100.0%; Score 88; DB 6; Length 142;  
 Best Local Similarity 78.4%; Pred. No. 1.4e-19;  
 Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGGUGGUCCGGUAUGGUUAUCAGGUUCGUUAAACAGGCCAAAGGUCCGG 60  
 Db 1 ACCCTGGTTCCGTAGCTGTAGTGTATCACGTTTCGCTTAACAGGCCAAAGTCCCCGG 60  
 Qy 61 UUCGAAACGGGACUACAAACCAAC 88  
 Db 61 TTCTGAAACGGGCACTACAAAAACCAAC 88

RESULT 13  
 AX138490 LOCUS AX138490 142 bp RNA linear PAT 30-MAY-2001  
 DEFINITION Sequence 51 from Patent EP1097993.  
 VERSION GI:14274386  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1 Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.  
 AUTHORS Functional ribozyme chimeric molecules capable of sliding  
 TITLE Patent: EP 1097993-A 51 09-MAY-2001;  
 JOURNAL Secretary of Agency of Industrial Science and Technology (JP);  
 Taira, Kazunari (JP)  
 FEATURES Location/Qualifiers  
 1. .142  
 /organism="synthetic construct"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32630"  
 /note="the nucleotide sequence of CPP Rz3"  
 ORIGIN

Query Match 100.0%; Score 88; DB 6; Length 142;  
 Best Local Similarity 78.4%; Pred. No. 1.4e-19;  
 Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGGUGGUCCGGUAUGGUUAUCAGGUUCGUUAAACAGGCCAAAGGUCCGG 60

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FEATURES	FH Key source	FT source	FT	1..142 /organism='Artificial Sequence'.
ORIGIN	Source	Source	Source	1..142 /organism="synthetic construct" /mol_type="genomic RNA" /db_xref="taxon:32630"
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Best Local Similarity				78.4%; Pred. No. 1.e 19;
Matches				Mismatches 0; Indels 0; Gaps 0
Qy	1	ACCGGUGAUUCCGUAGUCGUAGGGUAUCAGGUUCGCCUAACAGGCAAAGGUCCCCGG		60
Db	1	ACCGGUGAUUCCGUAGUCGUAGGGUAUCAGGUUCGCCUAACAGGCAAAGGTCCCCGG		60
Qy	61	UDCGAAA CGGGCACTACAAAAACCAAC		88
Db	61	UDCGAAA CGGGCACTACAAAAACCAAC		88

Result No.	Score	Query	Match	Length	DB	ID	Description
1	88	100.0	88	6	BD182356		BD182356 Novel max
2	88	100.0	88	6	AX453846		AX453846 Sequence
3	88	100.0	88	6	BD143502		BD143502 Nucleic acid
4	88	100.0	100	6	BD17174	E47174 Method for	
5	88	100.0	117	6	BD174675	BD174675 Ribozyme	
6	88	100.0	137	6	AX429079	AX429079 Sequence	
7	88	100.0	137	6	BD143601	BD143601 Method of	
8	88	100.0	138	6	AX453858	AX453858 Sequence	
9	88	100.0	141	6	AX138491	AX138491 Sequence	
10	88	100.0	141	6	BD015659	BD015659 Slidable	
11	88	100.0	142	6	AX138488	AX138488 Sequence	
12	88	100.0	142	6	AX138489	AX138489 Sequence	
13	88	100.0	142	6	AX138490	AX138490 Sequence	
14	88	100.0	142	6	AX138492	AX138492 Sequence	
15	88	100.0	142	6	BD015656	BD015656 Slidable	
16	88	100.0	142	6	BD015657	BD015657 Slidable	
17	88	100.0	142	6	BD015658	BD015658 Slidable	
18	88	100.0	142	6	BD015660	BD015660 Slidable	
19	88	100.0	151	6	AX138449	AX138449 Sequence	

Matches	69;	Conservative	19;	Mismatches	0;	Indels	0;	Gaps	0;
Y	1	ACCGGTTTCCGGAGGGTGTAAUAGGGGUCGCCAACCGGAAGGUCCCCGG	60						
b	1	ACCGGTTTCCGGAGGGTGTAAUAGGGGUCGCCAACCGGAAGGUCCCCGG	60						
y	1	UUCGAAACGGGCAUCACAAAAACCAAC	88						
b	61	TTCGAAACGGGCACTACACAAAAACCAAC	88						
RESULT 2									
OCUS	AX453846	Sequence 5	From Patent EP1213351.	88 bp	RNA	linear	PAT 06-JUL-2002		
DEFINITION	AX53846	GI:21713515							
VERSION	AX53846..1								
KEYWORDS		Synthetic construct							
ORGANISM		Synthetic construct							
REFERENCE		Artificial sequences.							
AUTHORS	Taira,K., Warashina,M. and Warashina,T.								
TITLE	Nucleic acid enzymes acquiring an activity for cleaving a target								
JOURNAL	RNA by recognising another molecule								
	Patent: EP 1213351-A 5 12-JUN-2002;								
	National Institute of Advanced Industrial Science and Technology (JPN)								
FEATURES	source	Location/Qualifiers							
	1..88	/organism="synthetic construct"							
	/mol type="unassigned RNA"								
	/db_xref="axon:32630"								
	/note="tRNAval promoter sequence"								
ORIGIN									
		Query Match 100.0%; Score 88; DB 6; Length 88;							
		Best Local Similarity 78.4%; Pred. No. 1..4e-19;							
		Matches 69; Conservative 19; Mismatches 0;							
Y	1	ACCGGTTTCCGGAGGGTGTAAUAGGGGUCGCCAACCGGAAGGUCCCCGG	60						
D	1	ACCGGTTTCCGGAGGGTGTAAUAGGGGUCGCCAACCGGAAGGUCCCCGG	60						
Y	1	UUCGAAACGGGCAUCACAAAAACCAAC	88						
D	61	TTCGAAACGGGCACTACACAAAAACCAAC	88						
RESULT 3									
LOCUS	ED143502	ED143502	88 bp	RNA	linear	PAT 17-JUN-2003			
DEFINITION		Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule.							
DEFINITION	ED143502..1	GI:27849260							
DEFINITION	ED143502..2	GI:27849260							
DEFINITION	ED143502..3	GI:27849260							
DEFINITION	ED143502..4	GI:27849260							
DEFINITION	ED143502..5	GI:27849260							
DEFINITION	ED143502..6	GI:27849260							
DEFINITION	ED143502..7	GI:27849260							
DEFINITION	ED143502..8	GI:27849260							
DEFINITION	ED143502..9	GI:27849260							
DEFINITION	ED143502..10	GI:27849260							
DEFINITION	ED143502..11	GI:27849260							
DEFINITION	ED143502..12	GI:27849260							
DEFINITION	ED143502..13	GI:27849260							
DEFINITION	ED143502..14	GI:27849260							
DEFINITION	ED143502..15	GI:27849260							
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DEFINITION	ED143502..19	GI:27849260							
DEFINITION	ED143502..20	GI:27849260							
DEFINITION	ED143502..21	GI:27849260							
DEFINITION	ED143502..22	GI:27849260							
DEFINITION	ED143502..23	GI:27849260							
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DEFINITION	ED143502..25	GI:27849260							
DEFINITION	ED143502..26	GI:27849260							
DEFINITION	ED143502..27	GI:27849260							
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DEFINITION	ED143502..30	GI:27849260							
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DEFINITION	ED143502..141	GI:27849260							
DEFINITION	ED143502..142	GI:27849							

RESULT 6  
 AX429079 LOCUS AX429079 137 bp RNA linear PAT 21-JUN-2002  
 DEFINITION Sequence 2 from Patent EP1201751.  
 ACCESSION AX429079  
 VERSION AX429079.1 GI:21540419  
 SOURCE  
 ORGANISM synthetic construct  
 artificial sequences.  
 REFERENCE 1. (bases 1 to 117)  
 AUTHORS Takebe,Y. and Okawa,J.  
 TITLE Ribozyme expression system  
 JOURNAL DIRECTOR GENERAL OF NATIONAL INSTITUTE OF INFECTIONS DISEASES,  
 YUTAKA TAKEBE,JUN OKAWA  
 OS Artificial Sequence  
 PN JP 2002262880-A1  
 PD 17-SEP-2002  
 PF 09-MAR-2001 JP 2001067253  
 PI YUTAKA TAKEBE,JUN OKAWA  
 FC C12N15/09,A61K31/711,A61K35/76,A61P31/18,C12N5/10,  
 C12N9/00,  
 PC C12N15/00,C12N5/00  
 CC tetol-trNAval  
 FH Key  
 FT source  
 FEATURES source  
 FT  
 FEATURES source  
 FT  
 ORIGIN  
 Query Match 100.0%; Score 88; DB 6; Length 117;  
 Best Local Similarity 78.4%; Pred. No. 1.4e-19;  
 Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 ACCGUGUCCGUAGGUAGGUACCUUCGCUAACACGGAAAGGUCCCCGG 60  
 Db 29 ACCGTGTTTCGGTAGTGTAGGGTTATCACCTTCGCTAACACGGAAAGTCCCCGG 88  
 Qy 61 UUCGAAAACGGGACTACUACAAAAACCAAC 88  
 Db 89 TTGGAACCGGGACTACAAAAACCAAC 116

RESULT 7  
 BD143601 LOCUS BD143601 137 bp RNA linear PAT 17-JAN-2003  
 DEFINITION Method of selecting high-function nucleic acid molecule in cell.  
 ACCESSION BD143601  
 VERSION BD143601.1 GI:27849359  
 KEYWORDS SOURCE  
 ORGANISM synthetic construct  
 synthetic construct  
 artificial sequences.  
 REFERENCE 1. (bases 1 to 137)  
 AUTHORS Taira,K. and Sano,M.  
 TITLE Method of selecting high-function nucleic acid molecule in cell  
 JOURNAL Patent: JP 200212685-A2 08 MAY-2002;  
 DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL  
 SCIENCE AND HIROSHI YATSUSHASHI, TECHNOLOGY, KAZUNARI TAIRA  
 OS Artificial Sequence  
 PN JP 200212685-A/2  
 PD 08-MAY-2002  
 PF 30-OCT-2000 JP 2000331347  
 PI KAZUNARI TAIRA,MASAYUKI SANO  
 PC C12N15/09,C12N9/00,C12O1/02,C12O1/25,C12Q1/68,C12N15/00 CC  
 Description of Artificial Sequence: Sequence of tRNA-Luc GUA CC  
 RZ  
 FH Key  
 FT Source  
 FEATURES Source  
 FT  
 ORIGIN  
 Query Match 100.0%; Score 88; DB 6; Length 137;  
 Best Local Similarity 78.4%; Pred. No. 1.4e-19;  
 Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 ACCGUGUCCGUAGGUAGGUACCUUCGCUAACACGGAAAGGUCCCCGG 60  
 Db 1 ACCGTGTTTCGGTAGTGTAGGGTTATCACCTTCGCTAACACGGAAAGTCCCCGG 60  
 Qy 61 UUCGAAAACGGGACTACUACAAAAACCAAC 88  
 Db 61 TTGGAACCGGGACTACAAAAACCAAC 88

RESULT 8  
 AX453858 LOCUS AX453858 138 bp RNA linear PAT 06-JUL-2002  
 DEFINITION Sequence 17 from Patent EP1213351.  
 ACCESSION AX453858  
 VERSION AX453858.1 GI:21713527  
 KEYWORDS SOURCE  
 ORGANISM synthetic construct  
 synthetic construct  
 artificial sequences.  
 REFERENCE 1 Taira,K., Warashina,M. and Warashina,T.  
 AUTHORS Nucleic acid enzymes acquiring an activity for cleaving a target  
 TITLE

FEATURES		Location/Qualifiers			
Source					
	1..138	/organism="synthetic construct"			
		/mol_type="unassigned RNA"			
		/db_xref="taxon:32630"			
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	Query Match	100.0%	Score 88; DB 6; Length 138;		
	Best Local Similarity	78.4%	Pred. No. 1.4e-19;		
	Matches	69;	Mismatches 0;	Indels 0;	Gaps 0
	Conservative	19;			
Qy	1	ACGGUAGGUUCGGGUAGUGGUADUAUCGUUGCCUDACACGCGAAAGGUCCCCGG	60		
Db	1	ACGTGTTCTGCTGTAGTGTAGTGTATCACGGCTTAACACCGGAAGGTCCCCGG	60		
Qy	61	UUCGAAACCGGGACUACAAAAACCAAC 88			
Db	61	UUCGAAACCGGGACTACAAAAACCAAC 88			
RESULT 9					
AX138491	AX138491	AX138491	141 bp	RNA	linear
LOCUS		Sequence 52 from Patent EP1097993.			
DEFINITION		AX138491			
ACCESSION		AX138491			
VERSION		1 GI:14274387			
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE		Taira,K., Warashina,M., Kuwabara,T, and Kawasaki,H.			
AUTHORS		Functional ribosomal chimeric molecules capable of sliding			
TITLE					
JOURNAL		Patent: EP 1097993-A 52 09-MAY-2003;			
		Secretary of Agency of Industrial Science and Technology (JP) ;			
Taira, Kazunari (JP)					
FEATURES	Location/Qualifiers				
Source	1..141	/organism="synthetic construct"			
		/mol_type="unassigned RNA"			
		/db_xref="taxon:32630"			
		/note="the nucleotide sequence of CPP_R24"			
ORIGIN					
Qy	1	ACGGUAGGUUCGGGUAGUGGUADUAUCGUUGCCUDACACGCGAAAGGUCCCCGG	60		
Db	1	ACGTGTTCTGCTGTAGTGTAGTGTATCACGGCTTAACACCGGAAGGTCCCCGG	60		
Qy	61	UUCGAAACCGGGACUACAAAAACCAAC 88			
Db	61	UUCGAAACCGGGACTACAAAAACCAAC 88			
RESULT 10					
BD015659	BD015659	BD015659	141 bp	RNA	linear
LOCUS		Sliding functional chimeric molecule.			
DEFINITION		BD015659			
ACCESSION		BD015659			
VERSION		1 GI:22556796			
KEYWORDS		JP 2001190282-A/52.			
SOURCE					
ORGANISM					
REFERENCE		synthetic construct			
		synthetic construct			
		artificial sequences.			
		1 (bases 1 to 141)			

AUTHORS	Taira,K., Warashina,M., Kuwabara,T. and kawasaki,H.
JOURNAL	Slidable functional chimeric molecule
PATENT	JP 2001190282-A 52 17-JUL-2001;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED TECHNOLOGY AND MANABU NAKAJIMA TECHNOLOGY, KAZUNARI TAIROS Artificial Sequence	KAZUNARI TAIRO,MASAKI WARASHINA,TOMOKO KUWABARA,KAWASAKI
PPN	JP 2001190282-A/52
PD	17-JUL-2001
PF	02-NOV-2000 JP 2000336082
PI	KAZUNARI TAIRO,MASAKI WARASHINA,TOMOKO KUWABARA,KAWASAKI
PC	C12N1/09, A61K31/7105, A61K31/711, A61K31/8/00, A61K31/8/00, A61K31/8/00, A61K31/8/00, A61P43/00, A61P43/00, PC C12N9/122, C12Q1/02, C12Q1/68, G01N33/53, G01N33/56, A61K37/02, A61K37/02, CC Description of Artificial Sequence: the nucleotide sequence of CPP Rz4, FH Key Location/Qualifiers, FT source 1..141, FT /organism=Artificial Sequence Location/Qualifiers 1..141, /organism="synthetic construct", /mol_type="genomic RNA", /db_xref="taxon:32630"
FEATURES source	Query Match Similarity 100.0%; Score 88; DB 6; Length 141; Best Local Similarity 78.4%; Pred. No. 1..4-19; Mismatches 0; Indels Matches 69; Conservative 19; Mismatches 0;
ORIGIN	Y 1 ACCGCGGCGGCGGUAGUGUAGGGTGTAAUCAGGUUCGCCUAACCGCGCA Y 1 ACCGCGGCGGCGGTAGTGTTAGGGTATCACGTTGCCCTAACACGCCA b 61 UUCGAAAACGGGACACUACA AAAACCCAC 88 b 61 TTGGAAAACGGGACAPACAAAACCCAC 88
RESULT 11	AX138488 AX138488 142 bp from Patent EP1037993. RNA linear
LOCUS	Sequence 49
DEFINITION	
ACCESSION	
VERSION	
KEYWORDS	
ORGANISM	
REFERENCE	1 Taira,K., Warashina,M., Kuwabara,T. and kawasaki,H. Functional ribozyme chimeric molecules capable of synthesis of synthetic construct artificial sequences.
AUTHORS	
TITLE	Patent: EP 1097993-A 49 09-MAY-2001;
JOURNAL	Secretary of Agency of Industrial Science and Technology, Taira, Kazunari (JP)
FEATURES source	Query Match Similarity 100.0%; Score 88; DB 6; Length 141; Best Local Similarity 78.4%; Pred. No. 1..4-19; Mismatches 0; Indels Matches 69; Conservative 19; Mismatches 0;
ORIGIN	Y 1 ACCGUGGUUCGGUAGUGUAGGGTGTAAUCAGGUUCGCCUAACCGCGCA Y 1 ACCGTTGCGTTTCGCGTAGTTAGTGTTATACGTTGCCCTAACACGCCA

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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 02:50:53 ; Search time 1362.36 Seconds

(without alignments); 722.185 Million cell. updates/sec

Title: US-09-974-974-2

Perfect score: 27

Sequence: 1 gucugacugucucaucaaaccggucc 27

Scoring table: IDENTITY\_NUC

Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters:

238946

Minimum DB seq length: 0

Maximum DB seq length: 60

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_htc:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	Source	FEATURES	ORIGIN
C 1	14.4	53.3	50	1 AU102657	AU102657 AU102657			
C 2	14.4	53.3	60	4 BI045126	BI945126 BI26b03.Y			
C 3		51.9	51	1 AJ7792078	AJ7792078 AJ7792078			
C 4	13.8	51.1	43	9 AL765834	AL765834 AL765834			
C 5	13.8	51.1	48	1 AV834227	AV834227 AV834227			
C 6	13.8	51.1	49	8 BH896046	BH896046 BH896046			
C 7	13.8	51.1	52	9 AJ793160	AJ793160 AJ793160			
C 8	13.6	50.4	23	8 A2475845	A2475845 IM029P09			
C 9	13.4	49.6	60	9 CL314996	CL314996 mth2-133P			
C 10	13.2	48.9	43	9 CL265635	CL265635 O2S028-0			
C 11	13.2	48.9	45	8 A2820793	A2820793 2M009B18			
C 12	13.2	48.9	46	1 TA119755	TA119755 uc20aa9.r			
C 13	13.2	48.9	53	9 TA126C12Q	TA126C12Q			
C 14	13.2	48.1	43	1 AA905188	AA905188 ok10b03.s			
C 15	13	48.1	44	8 BZ594864	BZ594864 SALK_0853			
C 16	13	48.1	54	9 AL752543	AL752543 Arabidopsis			
C 17	12.8	47.4	47	1 AA897045	AA897045 al08f07.s			
C 18	12.8	47.4	51	8 BH789953	BH789953 SALK_0528			
C 19	12.8	47.4	59	1 AU259987	AU259987 C0735343			
C 20	12.6	46.7	43	7 C0735543	C0735543 SILL0b12			
C 21	12.6	46.7	45	7 D19978	D19978 HUNGS0043			
C 22	12.6	46.7	46	7 R86026	R86026 YP12f04.r1			
C 23	12.6	46.7	50	1 AU102358	AU102358 AU102359			
C 24	12.6	46.7	50	1 AU102359	AU102359			

ALIGNMENTS								
<b>RESULT 1</b>								
LOCUS	AU102657	AU102657 Sugano Homo sapiens mRNA linear EST 28-JAN-2004	DEFINITION	CAS0520, mRNA sequence.	VERSION	AU102657	EST.	ORGANISM
ACCESSION	AU102657		KEYWORDS	Homo sapiens (human)	REFERENCE	1 (bases 1 to 50)	Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	
			AUTHORS	Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Iogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, K., Maruyama, K., Suyama, A., and Sugano, S.	TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites	EMBO Rep. 2 (5), 388-393 (2001)	JOURNAL
			SOURCE				21270072	MEDLINE
			COMMENT				11315929	PUBMED
			CONTACT	Yutaka Suzuki				
			DEPARTMENT	Department of Virology				
			INSTITUTE	Institute of Medicinal Science, University of Tokyo				
			4-6-1	Shirokanedai, Minato-ku, Tokyo 108-8539, Japan				
			Email:	Y.suzuki@ims.u-tokyo.ac.jp				
			Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Sugano, S.	Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).				
			FEATURES	Location/Qualifiers				
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			/mol_type="mRNA"					
			/db_xref="taxon:9616"					
			/clone_id="C0A05220"					
			/clone_lib="Sugano Homo sapiens cDNA library"					
			Query Match	53.3%; Score 14.4; DB 1; Length 50;				
			Best Local Similarity	66.7%; Pred. No. 4.1e+04;				
			Matches 16;	Conservative 2; Mismatches 6;				
			Indels 0;	Gaps 0;				

Qy 3 CUGACGUCGUCAUCGAAACCGGGUC 26

Db 35 CTGACGGGATGCAACCCGGGCC 12

RESULT 2		EST 11-AUG-2004
BI945126/C	BI945126	51 bp mRNA linear EST 08-JUL-2004
LOCUS	sb26b03.y1 Gm-c1008	60 bp mRNA linear EST 08-JUL-2004
DEFINITION	Glycine max cDNA clone GENOME SYSTEMS CLONE ID:	EST 08-JUL-2004
ACCESSION	Gm-c1008-294 5'	mRNA sequence.
VERSION	BI945126	
KEYWORDS	BI945126..1	GI:16282639
ORGANISM	Glycine max (soybean)	
SOURCE	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine.	
REFERENCE	1 (bases 1 to 60)	
AUTHORS	Shoemaker,R., Keim,P., Vodkin,L., Erpelding,J., Coryell,V., Khanna,A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wyie,T., Underwood,K., Steffoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,P., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Watson,R. and Wilson,R.	
COMMENT	Unpublished (1999)	
TITLE	Contact: Shoemaker R/Public soybean EST Project	
JOURNAL	Public Soybean EST Project	
	Washington University School of Medicine, 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA	
	Tel: 314 286 1800	
	Fax: 314 286 1810	
	Email: est@watson.wustl.edu	
	When it has been determined, an EST from the other end of this clone is listed in the 'Other ESTs on clone' field. Putative full length read vector to vector length is 61. This clone is available through: Biogenetic Services, 801 32nd Ave, Brookings, SD 57006 USA (phone: 605 423 4163; email: info@biogeneticservices.com) Seq primer: -40RP from Gibson.	
FEATURES	Source	
	1. .60	
	/organism="Glycine max"	
	/mol type="mRNA"	
	/cultivar="Williams"	
	/db_xref="taxon:3847"	
	/clone="GENOME SYSTEMS CLONE ID: Gm-c1008-294"	
	/lab_host="DH10B"	
	/clone_id="Gm-c1008"	
	/note=Vector: pSPORI1; Site 1: SalI; Site 2: NotI; This cDNA library was constructed from mRNA isolated from whole young pods, approximately 2cm long, of 12-week-old greenhouse grown plants. The library was prepared using the Life Technologies pSuperScript CDNA library construction kit. Complementary DNA was synthesized from mRNA using a poly (A <sup>+</sup> ) sequence with a NotI restriction site. SalI linkers adapters were ligated to the blunt-ended cDNA fragments followed by NotI digestion. The cDNA fragments were directionally cloned into the NotI-SalI restriction site of the pSPORI vector. The ligated cDNA fragments were transformed into E. coli Electromax DH10B host cells. This library was constructed by Dr. Lila Vodkin and Dr. Anu Khanna."	
ORIGIN		
	Query Match	EST 11-AUG-2004
	Best Local Similarity	51 bp mRNA linear EST 11-AUG-2004
	Matches	0.18 2.10 105, mRNA sequence.
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 104, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
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	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
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	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
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	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
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	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
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	Query Match	EST 08-JUL-2004
	Best Local Similarity	51 bp mRNA linear EST 08-JUL-2004
	Matches	0.13 2.10 105, Pred. No. 4.2e+04;
	Query Match	EST 08-JUL-2004



Qy 3 CUGACUGUCAUGAAAACCGGGUCC 27  
 Db 1.0 CTGCTCTTCATCCACCTTGTCGCC 34

RESULT 7  
 AJ593160/c Locus AJ593160 52 bp DNA linear GSS 15-JAN-2004  
 DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone 376A08, genomic survey sequence.

ACCESSION AJ593160  
 KEYWORDS GSS; left border; T-DNA flanking sequence.  
 SOURCE Organism Arabidopsis thaliana (thale cress)

REFERENCE 1. Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F., Chauvin, S., Bechtold, N., Crude, C., Derobe, R., Pelletier, G., Lepiniec, L., Caboche, M., and Lecharny, A.

TITLE T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites  
 JOURNAL ENBO Rep. 3 (12), 1152-1157 (2002)  
 MEDLINE 22363535

PUBLMED  
 REFERENCE 2. (bases 1 to 52)  
 AUTHORS Balzergue, S.  
 TITLE Direct Submission (23-OCT-2003) Balzergue S., INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE  
 COMMENT PCR was performed on DNA from transformants of *Arabidopsis thaliana* plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://absgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infogen.fr>).

FEATURES source  
 /organism="Arabidopsis thaliana"  
 /mol type="Genomic DNA"  
 /db\_xref="Wassilievskaia"  
 /db\_xref="taxon:3702"  
 /clone="376A08"  
 /clone lib="Arabidopsis thaliana T-DNA insertion lines"  
 misc\_feature 1..52  
 /note="T-DNA flanking sequence left border"

ORIGIN Query Match 51.1%; Score 13.8; DB 9; Length 52;  
 Best Local Similarity 52.9%; Pred. NO. 8.1e+04;  
 Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 2 UCGACUGUCAUGAAAACCGGA 18  
 Db 40 TCTCTGTTCATCCAA 24

RESULT 8  
 AZ475845 Locus AZ475845 23 bp DNA linear GSS 04-OCT-2000  
 DEFINITION 1M029409F Mouse 10kb plasmid UGCGC library Mus musculus genomic clone UGCGCIM029409 F, genomic survey sequence.  
 ACCESSION AZ475845  
 VERSION AZ475845.1 GI:106333970  
 KEYWORDS GSS.

SOURCE Organism Mus musculus (house mouse)  
 Organism Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus .  
 REFERENCE 1 (bases 1 to 23)  
 AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederaussem,A. and Wright,D., Weiss,R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts unpublished (2000)  
 COMMENT Contact: Robert B. Weiss University of Utah Genome Center University of Utah  
 JOURNAL Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Insert Length: 10000 Std Error: 0.00 Email: ddunn@genetics.utah.edu Tel: 801 585 5606 Fax: 801 585 7177  
 Plate: 0294 row: P column: 09 Seq primer: CGTCTTAACGAGCGGCACT Class: plasmid ends High quality sequence stop: 23. Location/Qualifiers 1..23  
 FEATURES source /organism="Mus musculus"  
 /mol type="genomic DNA"  
 /strain="C57BL/6J"  
 /clone lib="Mouse 10kb plasmid UGCGC library"  
 /db\_xref="taxon:10090"  
 /clone="UGCGCIM029409"  
 /sex="Male"  
 /lab host="B. Coli Strain XL10-Gold, T1-resistant, F-"  
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnarecs/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adapter oligonucleotides were ligated to the blunt ends in high molar excess. The adapter DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapter vector DNA, and transformed into chemically competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN Query Match 50.4%; Score 13.6; DB 8; Length 23;  
 Best Local Similarity 50.0%; Pred. NO. 9.1e+04;  
 Matches 12; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 3 CGACAGUGUCAUGAAAACCG 22  
 Db 2 CTTGACTGTACAGACAGACAG 21

RESULT 9  
 CL31496/c Locus CL31496/c  
 DEFINITION mth2-133P14 OP Medicago truncatula BAC end sequences Medicago truncatula Genomic 5 , genomic survey sequence.  
 ACCESSION CL31496  
 VERSION CL31496.1 GI:44832670  
 KEYWORDS GSS.



*musculus* C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnarecs/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired. With T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL1-Gold (Stratagene) cells and selected for ampicillin resistance.

**ORIGIN**

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
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Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

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Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Query Match Score 48.9%; Score 13.2%; DB 8; Length 45;  
Best Local Similarity 53.8%; Pred. No. 1.6e+05;  
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

/lab\_host="DH10B"  
/clone\_lib="Soares\_mammary\_gland\_NbMMG"  
/note="Organelle: mammary gland; Vector: pT7M3D-Pac  
(Pharmacia) with a modified polylinker; Site 1: Not I ;  
Site 2: Eco RI; 1st strand cDNA was primed with a Not I -  
oligo(dt) primer [5',  
TCTTACCAATCTGAAGTGGAGCGGAATGGTTTTTTTTTTTTTT  
T 3'] ; double-stranded cDNA was ligated to Eco RI  
adaptors (Pharmacia), digested with Not I and cloned into  
the Not I and Eco RI sites of the modified pT7M3D vector.  
RNA provided by Dr. Minoru Ko, Wayne State Univ. Library  
constructed and normalized by Bento Soares and M. Fatima  
Bonaldo."

RESULT	14	REFERENCE	1 (bases 1 to 44)
LOCUS	AA905188_C	AUTHORS	Alonso, J.M., Leisse, T.J., Barajas, P., Chen, H., Cheuk, R., Gadrinab, C., Jeske, A., Karrer, M., Kim, C.J., Parker, H., Prednis, L., Shinn, P., Zimmerman, J., and Ecker, J.R.
DEFINITION	Ok10b03..81 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1507373 3' SimilTaT to_SW:PDXK_HUMAN O00764 PYRIDOXINE KINASE mRNA sequence.	TITLE	A Sequence-Indexed Library of Insertion Mutations in the Arabidopsis Genome
ACCESSION	AA905188	JOURNAL	unpublished (2001)
VERSION	AA905188.1	COMMENT	Contact: Joseph R. Ecker Salk Institute Genomic Analysis Laboratory (SIGnAL) The Salk Institute for Biological Studies 10010 N. Torrey Pines Road, La Jolla, CA 92037, USA Tel: 858 453 4100 x1752 Fax: 858 558 6379 Email: ecker@salk.edu
KEYWORDS	EST.		This is single pass sequence recovered from the left border of TDNA. This sequence lies within an annotated exon of At5g35690.
SOURCE	Homo sapiens (human)	Class:	TDNA tagged.
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	FEATURES	Location/Qualifiers
REFERENCE	1 (bases 1 to 43)	source	1. .44 /organism="Arabidopsis thaliana" /mol_type="genomic DNA" /ecotype="Col-0" /db_xref="Taxon:3702"
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.		/clone="SALK_085333.43.20.x"
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index		/clone.lib="Arabidopsis thaliana TDNA insertion lines" /note="PCR was performed on Arabidopsis thaliana lines each of which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tDNA_protocols.html"
JOURNAL	Unpublished (1997)		ORIGIN
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgsabsr@mail.nih.gov		Query Match 48.1%; Score 13; DB 8; Length 44; Best Local Similarity 52.4%; Pred. No. 1.9e+05; Matches 11; Conservative 5; Mismatches 5; Indels 0; Gaps 0;
FEATURES	source		Qy 5 GACUGUCAUCGAAACGGGU 25 Db 13 GAGTGTCATAGAAAAGGT 33
DEFINITION	IMAGE Consortium (info@image.lnl.gov) for further information.		Search completed: October 31, 2004, 04:14:10 Job time : 1373.36 secs
ACCESSION	AA905188		
VERSION	AA905188.1		
KEYWORDS	EST.		
SOURCE	Homo sapiens		
ORGANISM	Bukaryota; Viridiplantae; Streptophyta; Embryophyta Tracheophyta; Spermatophyta; Magnoliophyta; eu dicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.		
RESULT	15	Query Match 48.1%; Score 13; DB 1; Length 43;	
LOCUS	BZ594864	Best Local Similarity 47.8%; Pred. No. 1.9e+05;	
DEFINITION	BZ594864	Matches 10; Conservative 6; Mismatches 5; Indels 0; Gaps 0;	
ACCESSION	BZ594864		
VERSION	BZ594864		
KEYWORDS			
SOURCE			
ORGANISM			
RESULT	15	Query Match 48.1%; Score 13; DB 1; Length 43;	
LOCUS	BZ594864	Best Local Similarity 47.8%; Pred. No. 1.9e+05;	
DEFINITION	BZ594864	Matches 10; Conservative 6; Mismatches 5; Indels 0; Gaps 0;	
ACCESSION	BZ594864		
VERSION	BZ594864		
KEYWORDS			
SOURCE			
ORGANISM			



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 04:14:22 ; Search time 1728 Seconds  
 (without alignments)

1855.727 Million cell updates/sec

Title: US-09-974-974-5  
 Perfect score: 88  
 Sequence: accggacuuccguagugu.....cgggcacuacaaaaacac 88

Scoring table: IDENTITY\_NUC  
 Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 3813152

Minimum DB seq length: 0  
 Maximum DB seq length: 200

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

EST : EST:  
 1: gb\_est1:  
 2: gb\_est2:  
 3: gb\_htc:  
 4: gb\_est3:  
 5: gb\_est4:  
 6: gb\_est5:  
 7: gb\_est6:  
 8: gb\_gssi:  
 9: gb\_gss2:  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query Score	Match Length	DB ID	Description
1	40.4	45.9	BF031637	BF031637 601558122 CC059191
c 2	39	44.3	158	AJ591533 Arabidopsis CC004711 PUDGC27D BX176513 Danio rer H04713 e17.1.3 BX203515 Danio rer BU275850 Cr_Emb_08 CD768454 AGENCOURT BI845549 f892a07. Y BH330162 CH20-141 Y
c 3	38.2	43.4	171	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 4	33	43.4	174	BH330172 CH20-141 Y
c 5	31.6	35.9	177	AZ2118437 BX203515 Danio rer BU275850 Cr_Emb_08 CD768454 AGENCOURT BI845549 f892a07. Y BH330162 CH20-141 Y
c 6	30.8	35.0	126	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 7	29.8	33.9	71	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 8	29.6	33.6	150	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 9	29.4	33.4	157	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 10	29.2	33.2	130	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 11	29.2	33.2	166	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 12	29	33.0	157	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 13	29	33.0	166	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 14	29	33.0	175	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 15	28.8	32.7	158	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 16	28.8	32.7	166	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 17	28.4	32.3	158	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 18	28.4	32.3	169	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 19	28.4	32.3	195	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 20	28.2	32.0	108	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 21	28.2	32.0	118	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 22	28.2	32.0	129	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 23	28.2	32.0	129	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24
c 24	28.2	32.0	132	AZ261468 RPCI-23-1 AZ11437 RPCI-23-4 BX244513 Danio rer C0738878 SLLB06a25 C0738859 SLLB06a25 B1708958 fp94905.Y BH81737 SALK_0629 BM532607 fx38c08.Y C0739537 SLLB06a24 C0739528 SLLB06a23 C0739710 SLLB06a24 C0739745 SLLB06a24 C0739585 SLLB06a24

## ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	mRNA	mrna
	BF031637	BF031637 NIH_MGC_58	5' bp	linear
		NIH_GC clone IMAGE:3827860 5'		EST 10-OCT-2000
		mRNA sequence.		
	BF031637	BF031637 EST.		
		KEYWORDS		
		ORGANISM	Homo sapiens	
		REFERENCE	1 (bases 1 to 57)	
		AUTHORS	NIH-GC http://mgc.ncbi.nih.gov/	
		TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)	
		JOURNAL	Unpublished (1999)	
		COMMENT	Contact: Robert Strausberg, Ph.D. Email: ccrabbs@rcmmail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: CLONETECH Laboratories, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNC) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNC at htpp://image.llnl.gov/Plate: ILLC497 row: 1 column: 05 High quality sequence stop: 57. Location/Qualifiers 1. .57 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="TMAGP:3827860" /tissue_type="hypernephroma" /lab_host="DH10B (T1 phage-resistant)" /clone_lab="NIH MGC 58" /note="Organ: kidney; Vector: pDR-LIB (Clontech); Site 1: SII (ggccgtttatggcc); Site 2: SII (ggccattatggcc); Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTTATGCC-3' and 3' adaptor sequence: 5'-ATTCAGAGGCCCCAGGGCCGATG-3' (30) BN-3', where B = A, C, or G and N = A, C, G, or T. Average insert size 1.35 kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."	

ORIGIN Query Match 45.9%; Score 40.4; DB 2; Length 57;  
 Best Local Similarity 66.0%; Pred. No. 0; 0/0023; Indels 0; Gaps 0;  
 Matches 33; Conservative 11; Mismatches 6;

Qy 18 UGUGUGUUAUCGUTGCUAACACCGAAAGGUCCCCGGTCAAAA 67  
 Db 1 TGTAGCGCTTACATTCGCCCTACACCGAAGTCCGGTTATAA 50

RESULT 2  
 CC059191/c AJ591533 LOCUS AJ591533 171 bp DNA linear GSS 15-JAN-2004  
 DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone 587A06, genomic survey sequence.

ACCESSION AJ591533 VERSION AJ591533.1 GI:37941157 KEYWORD GSS; left border; T-DNA flanking sequence.

SOURCE Organism: Arabidopsis thaliana (thale cress)

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; spermatophyta; Magnoliophyt; eudicots; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

1 Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F., Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G., Lepiniec,L., Caboche,M. and Lecharny,A.  
 T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)

REFERENCE AUTHORS Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F., Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G., Lepiniec,L., Caboche,M. and Lecharny,A.  
 TITLE JOURNAL EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL PubMed 12446565  
 PUBLMED 2 (bases 1 to 171)

REFERENCE AUTHORS Balzergue,S.  
 TITLE Direct Submission  
 JOURNAL Submitted (23-OCT-2003) Balzergue S., INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE

COMMENT PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.verrailles.inra.fr/publiclines/. This sequence has been generated in the framework of the French Plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infobiogen.fr).

FEATURES source  
 1. 171  
 /organism="Arabidopsis thaliana"  
 /mol\_type="genomic DNA"  
 /cultivar="Wassilewskija"  
 /db\_xref="taxon:3702"  
 /clone="587A06"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1. -171  
 /note="T-DNA flanking sequence left border"

ORIGIN Query Match 43.4%; Score 38.2; DB 9; Length 171;  
 Best Local Similarity 55.2%; Pred. No. 0; 0/018; Indels 0; Gaps 0;  
 Matches 37; Conservative 12; Mismatches 18;

Qy 7 GTGUCCGAGGUGAGUGUUAACGUUCGGCTAACCGCAAAGGUCCCCGGTCAAAA 66  
 Db 16 GGTTTCGTTGTTAGTTACAGTCATAACACTAAGGTCTCCGGTTCGA 75

FEATURES source  
 1. 158  
 /organism="Sorghum bicolor"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:4558"  
 /clone="ii20e02"  
 /lab\_host="DH5a"  
 /clone\_lab="WGS-SbicolorF (DH5a methyl filtered)"  
 /note="Site 1: Xba I; Site 2: Xba I. The vector was digested with XbaI and one nucleotide was added by fill in the recessive 3' end. The genomic DNA was nebulized, end repaired, adaptor ligated and size fractionated using sephadex. The resulting fragments were between 0.8 and 3 kb and were cloned into the vector (x/y reads in M13mp19, b/g reads in pUC19). The same ligation was transformed into DH5a."

ORIGIN Query Match 44.3%; Score 39; DB 8; Length 158;  
 Best Local Similarity 61.9%; Pred. No. 0; 0/0009; Indels 0; Gaps 0;  
 Matches 39; Conservative 9; Mismatches 15;

Qy 23 UGGUTAUACGUUCGCCUACACGGAAAGGUCCGGUUCGAAACCGGGCACTAACAAA 82  
 Db 78 TGGTATCACGTCACTAACACTGAAGTCCTCCGGTTCGAACCCGGCGACGGCAA 19

FEATURES source  
 1. 83 ACC 85  
 18 ARC 16  
 /note="T-DNA flanking sequence left border"

ORIGIN Query Match 44.3%; Score 39; DB 8; Length 158;  
 Best Local Similarity 61.9%; Pred. No. 0; 0/0009; Indels 0; Gaps 0;  
 Matches 39; Conservative 9; Mismatches 15;

Qy 23 UGGUTAUACGUUCGCCUACACGGAAAGGUCCGGUUCGAAACCGGGCACTAACAAA 82  
 Db 78 TGGTATCACGTCACTAACACTGAAGTCCTCCGGTTCGAACCCGGCGACGGCAA 19

FEATURES source  
 1. 83 ACC 85  
 18 ARC 16  
 /note="T-DNA flanking sequence left border"

RESULT 4 CC004711 LOCUS CC004711\_2M\_0.6-1.0\_KB\_174\_bp DNA linear GSS 31-MAR-2003  
 DEFINITION PUDGIC26TD genomic survey sequence.

ACCESSION Cc004711 VERSION GI:29383271  
 KEYWORDS GSS.  
 SOURCE Zea mays  
 ORGANISM Zea mays

RESULT 3

REFERENCE Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD  
AUTHORS 1. (bases 1 to 174)  
Whitehead,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,  
Resnick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and  
Bennetzen,J.  
TITLE Maize Genomics Consortium  
JOURNAL Unpublished (2003)  
COMMENT Contact: Cathy Whitehead  
TIGR 9712 Medical Center Drive, Rockville, MD 20850, USA  
Tel: 301-838-5843  
Fax: 301-838-0208  
Email: whitehead@tigr.org  
Seq primer: TP  
Class: sheared ends.  
FEATURES source Location/Qualifiers  
1. .174 /organism="Zea mays"  
/mol\_type="genomic DNA"  
/strain="B73"  
/db\_xref="taxon:4577"  
/clone="ZMMBTA179F03"  
/clone lib="ZM 0.6-1.0 KB"  
/note="Vector: pCR4-TOPO; Site\_1: EcoRI; 0.6-1.0 kb high  
Cot selected genomic DNA library"  
ORIGIN

Query Match 37.5%; Score 33; DB 8; Length 174;  
Best Local Similarity 57.5%; Pred. No. 0.17;  
Matches 42; Conservative 6; Mismatches 25; Indels 0; Gaps 0;  
Qy 14 GUAGUGUAGGUAUACGUUCGUCCUAACCGGAAGGUCCCGATGAAACCGGGC 73  
Db 66 GTAGTCGATGTAGCTAGCTCGCTTAAGCAAGGAGGGATGATAACCCGC 125  
Qy 74 ACACAAAAACCA 86  
Db 126 ATCTCCAAAATCA 138

RESULT 5 BX176513 DNA 177 bp linear GSS 13-MAR-2003  
LOCUS Danio rerio genomic clone DKY-176E1, genomic survey sequence.  
DEFINITION BX176513  
ACCESSION GI:28008239  
VERSION GSS  
SOURCE Danio rerio (zebrafish)  
ORGANISM Danio rerio  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;  
Cypriniformes; Cyprinidae; Danio.  
JOURNAL Submitted (13-MAR-2003). The Sanger Institute, Wellcome Trust Genome  
Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries:  
humquery@sanger.ac.uk Unpublished  
COMMENT This sequence was generated from the T7 end of BAC 176E1. 176E1 is  
part of the Danio rerio BAC Library created by R. Plasterk and N.V.  
KeyGene. Further details:  
[http://www.sanger.ac.uk/Projects/D\\_rerio/](http://www.sanger.ac.uk/Projects/D_rerio/)  
FEATURES source Location/Qualifiers  
1..177 /organism="Danio rerio"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:7055"  
/clone="DKY-176E1"  
/tissue type="Testis"  
/note="vector pIndigoBAC-536"  
ORIGIN

REFERENCE BX203515 LOCUS  
AUTHORS BX203515  
TITLE BX203515  
JOURNAL BX203515  
COMMENT BX203515  
DEFINITION Danio rerio genomic clone DKY-224D6, genomic survey sequence.  
ACCESSION BX203515  
VERSION BX203515  
KEYWORDS GSS.

Query Match 35.9%; Score 31.6; DB 9; Length 177;  
Best Local Similarity 54.8%; Pred. No. 0.57;  
Matches 34; Conservative 9; Mismatches 19; Indels 0; Gaps 0;  
Qy 12 CGGUAGUGUAGGUAUACGUUCGUCCUAACCGGAAGGUCCGGUUCGAAACCGGG 71  
Db 115 CAGTATGCGTAGCGCAGCGTTCGCTCACAGGAGAAGGTGCTGGTTGAGCCTG 174  
Qy 72 GC 73  
Db 175 GC 176

RESULT 6 H04713 LOCUS H04713  
DEFINITION e17-1.3-3' Lambda Zap mRNA linear EST 20-JUN-1995  
Rattus norvegicus cDNA clone e17-1.3.3', mRNA sequence. (9/93)  
ACCESSION H04713  
VERSION H04713.1 GI:867646  
KEYWORDS EST.  
SOURCE Rattus norvegicus (Norway rat)  
ORGANISM Rattus norvegicus (Norway rat)  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
Rattus.  
REFERENCE 1 (bases 1 to 126)  
AUTHORS Schwartz,P.E., Grieshaber,N.A., Grieshaber,S.S. and Majack,R.A.  
TITLE An expressed sequence tag from in vitro embryonic rat vascular  
smooth muscle cells  
JOURNAL Unpublished (1995)  
COMMENT Contact: Phillip E. Schwartz  
Pediatrics and Cellular and Structural Biology  
University of Colorado Health Sciences Center  
4200 East Ninth Avenue, Denver, Colorado, 80262, USA  
Tel: (303) 270-4569  
Fax: (303) 270-8353  
Email: schwartz\_ped@uchsc.edu.  
FEATURES source Location/Qualifiers  
1..126 /organism="Rattus norvegicus"  
/mol\_type="mRNA"  
/strain="Sprague-Dawley"  
/db\_xref="Taxon:10116"  
/clone="e17-1.3.3"  
/clone lib="Lambda Zap Express library of P. E. Schwartz  
(9/93)"  
/note="developmental-stage=Embryonic Day 17  
Post fertilization; tissue-type=Arta; cell-type=vascular  
smooth muscle cell; sex=Male."  
ORIGIN

Query Match 35.0%; Score 30.8; DB 7; Length 126;  
Best Local Similarity 52.7%; Pred. No. 1.1;  
Matches 39; Conservative 8; Mismatches 27; Indels 0; Gaps 0;  
Qy 15 UAGUGUAGGUAUACGUUCGUCCUAACCGGAAGGUCCGGUUCGAAACCGGGCA 74  
Db 51 TAGCTAGTGTAGGGCTTGCTTAGGAGCGAAGGCCCTGCTTCGTCAGCT 110  
Qy 75 CUACAAAAACCAAC 88  
Db 111 CTGAAAAAAAGAAC 124

RESULT 7 BX203515 LOCUS  
AUTHORS BX203515  
TITLE BX203515  
JOURNAL BX203515  
COMMENT BX203515  
DEFINITION Danio rerio genomic clone DKY-224D6, genomic survey sequence.  
ACCESSION BX203515  
VERSION BX203515  
KEYWORDS GSS.

SOURCE	Danio rerio (zebrafish) Danio rerio	FEATURES	High quality sequence stop: 150. Location/Qualifiers 1..150
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.	/organism="Symagittifera roscoffensis" /mol_type="mRNA" /db_xref="taxon:84072" /clone="Cr_Emb_08F08" /sex="mixed" /dev_stage="embryo" /clone lib="Convoluta roscoffensis embryos from Eva Jiminez"	
REFERENCE	Humphry,S.J., Huckle,E. and Durham,J.L.	TITLE	Direct Submission
JOURNAL	Submitted (13-MAR-2003) The Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Unpublished	COMMENT	This sequence was Generated from the T7 end of BAC 224D6. 224D6 is part of the Daniökey BAC Library created by R. Plasterk and N.V. keygene. Further details: <a href="http://www.sanger.ac.uk/Projects/D_rerio/">http://www.sanger.ac.uk/Projects/D_rerio/</a> .
FEATURES	1..71	ORIGIN	Query Match 33.6%; Score 29.6; DB 5; Length 150; Best Local Similarity 50.0%; Pred. No. 3.2; Matches 34; Conservative 10; Mismatches 24; Indels 0; Gaps 0;
source	/organism="Danio rerio" /mol_type="genomic DNA" /db_xref="taxon:955" /clone="DKEY-224D6" /note="Vector: "vector pIndigoBAC-536"	Qy 7 GGUTUCGTAGUGTAGUGGTTAUAACGATGCGTACACGCCAACACGGAAAGGUCCGGTUCGAA 66 Db 26 GGAGGAGTGCTGTAAGTGTAAAGCTCTCGCTCAATGAAAGGTGGATGTTGAG 85	
AUTHORS		ORIGIN	Query Match 33.9%; Score 29.8; DB 9; Length 71; Best Local Similarity 49.2%; Pred. No. 2.4; Matches 32; Conservative 11; Mismatches 22; Indels 0; Gaps 0; Db 67 ACCGGCA 74 Db 86 GCCACCA 93
TITLE		Qy 9 UUCCCTAGGAGGUAUACGGTACGCCUAACAGCGAAAGGUCCGGTUGGAAC 68 Db 2 TTGGATGGCTCAGTGGTTACGTCAGTAAAGGTCACTCGTTAAATC 61	
COMMENT		RESULT 9 CD768454	
REFERENCE		LOCUS AGNCOURT14739547 NICHD MM Hyp1 mRNA clone IMAGE:6975678 5', mRNA sequence.	
AUTHORS		DEFINITION CD768454	
JOURNAL		ACCESSION CD768454.1	
FEATURES		VERSION GI:32426956	
source		KEYWORDS EST.	
ORGANISM		ORGANISM Mus musculus (house mouse)	
DEFINITION		LOCUS Eukaryota; Metazoa; Chordata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.	
COMMENT		DEFINITION AGNCOURT14739547 NICHD MM Hyp1 mRNA clone IMAGE:6975678 5', mRNA sequence.	
REFERENCE		ACCESSION CD768454	
AUTHORS		VERSION 1 (bases 1 to 117)	
JOURNAL		KEYWORDS SOURCE NIH-MGC http://mgc.ncbi.nlm.nih.gov/	
FEATURES		TITLE National Institutes of Health, Mammalian Gene Collection (MGC)	
source		DEFINITION Unpublished (1999)	
ORGANISM		COMMENT Contact: Daniela S. Gerhard, Ph.D.	
DEFINITION		ORGANISM Office of Cancer Genomics	
COMMENT		DEFINITION National Cancer Institute / NIH	
REFERENCE		ACCESSION Bldg. 31 Rm10A07 Bethesda, MD 20892	
AUTHORS		VERSION Email: cgbbs@mail.nih.gov	
JOURNAL		KEYWORDS Tissue Procurement: Dr. Pamela Mellon and Dr. Pat Chappell	
FEATURES		SOURCE CDNA Library Preparation: CLONTECH Laboratories, Inc.	
source		DEFINITION CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILN)	
ORGANISM		DEFINITION DNA Sequencing by: Agencourt Bioscience Corporation	
DEFINITION		DEFINITION Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILN at:	
COMMENT		ACCESSION BU275850	
REFERENCE		VERSION http://image.liln.gov	
AUTHORS		KEYWORDS Plate: LILN3276 row: k column: 05	
JOURNAL		DEFINITION Tel: +44 131 650 6760	
COMMENT		DEFINITION Fax: +44 131 670 5450	
REFERENCE		DEFINITION Email: mark.blaxter@ed.ac.uk	
AUTHORS		DEFINITION The library was prepared by Eva Jimenez, University of Barcelona, Spain. The sequencing was performed by Eva Jimenez, Aziz Aboobaker and Ailie Rosie Edinburgh Phylogenomics Programme, ICAPB, Edinburgh, UK. The sequence contained a polyA tail (trimmed).	
JOURNAL		DEFINITION FORWARD, T7PL BACKWARD: triple 5 Exseq	
COMMENT		DEFINITION SEQ PRIMERS Plate: 08 row: F column: 08	
REFERENCE		DEFINITION SEQ PRIMERS FORWARD, T7PL BACKWARD: triple 5 Exseq	
AUTHORS		DEFINITION SEQ PRIMERS Plate: 08 row: 3 adaptors were used in cloning as library 5', and 3' adaptors were used in cloning as	
JOURNAL		DEFINITION SEQ PRIMERS	

follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence: 5'-ATTAGAGGCGGACATG-3T (30) BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.08 kb (range: 73-1.37 kb). 13/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Corp."

## ORIGIN

Query Match 33.4%; Score 29.4; DB 6; Length 117;  
Best Local Similarity 57.1%; Pred. No. 3.6;  
Matches 36; Conservative 6; Mismatches 21; Indels 0; Gaps 0;

Qy 25 GUUUCACGUUCGGCUAAACACGCGAAAGGUCCCCGGACUACGGCAAAACGUCCCCGGGTTGAGCTACGCTACAGCAGAAGATCACTGGTGA 65  
Db 28 GGTAGAGGCCGCTGCTGGCTGGCCAGGGCAAGGCCCTGGGTCCTAGGTCTACAAAAA 87

Qy 85 CAA 87  
Db 88 AAA 90

## RESULT 11

LOCUS BH330762 166 bp linear GSS 03-DRC-2001  
DEFINITION CH230-14I7-TJ CHORI-230 Segment 1 Rattus norvegicus genomic clone  
CH230-14I7, Genomic survey sequence.  
ACCESSION BH330762  
VERSION BH330762.1 GI:17261476  
KEYWORDS GSS  
SOURCE Rattus norvegicus (Norway rat)  
ORGANISM Rattus norvegicus (Norway rat)  
Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Muraenae; Murinae;

Rattus  
1 (bases 1 to 166)  
REFERENCE  
AUTHORS Zhao,S., Shetty,J.J., Shatsman,S., Tsegaye,G., Geer,K., Shvartsbeyn,A., Gebregiorgis,E., Overton,L., Russell,D., Chen,D., Riggs,F., de Jong,P. and Fraser,C.M.

TITLE Other GSS: CH230-14I7-TV  
JOURNAL Unpublished (1999)  
COMMENT Rat BAC End Sequences from Library CHORI-230 EcoRI segment  
Contact: Shaying Zhao  
Department of Eukaryotic Genomics  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850, USA  
Tel: 301 838 0200  
Fax: 301 838 0208  
Email: szhao@tigr.org

Clones are derived from the rat BAC library CHORI-230 (http://www.chori.org/bacpac/rat230.htm). For BAC library availability, please contact Pieter de Jong (pjdejong@mail.cho.org). Clones may be purchased from BACPAC Resources (http://www.chori.org/bacpac) or ering\_inform.html . BAC end page: http://www.tigr.org/tgb/bac\_end\_intro.html  
Plate: 14 row: I column: 7  
Seq primer: SP6  
Class: BAC ends.

FEATURES  
source  
Location/Qualifiers  
1. 1..166  
/organism="Rattus norvegicus"  
/mol type="genomic DNA"  
/strain="BN/SNHSd/MCW"  
/db\_xref="Itaxon:10116"  
/clone="CH230-14I7"  
/sex="Female"  
/cell type="Brain"  
/clone lib="CHORI-230 Segment 1"  
/note="Vector: pIRBAC2.1; Site 1: EcoRI; Site 2: EcoRI;  
CHORI-230 Rat (BN/SNHSd/MCW) BAC library produced by  
Pieter de Jong"

ORIGIN  
COMMENT Contact: Stephen L. Johnson  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
Tel: 314 286 1800  
Fax: 314 286 1800  
Email: zbrafish@watson.wustl.edu

DNA Library constructed by S. Lin DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: the J. M. A. G. B. Consortium/LINL, send email to: info@image.lini.gov

Location/Qualifiers

1..130

/organism="Danio rerio"

/mol type="mRNA"

/db\_xref="taxon:7955"

/clone="IMAGE:5077140"

/sex="mixed"

/dev\_stage="adult"

/lab\_host="DRI0B (phage-resistant)"

/clone lib="zebrafish neuron"

/note="Organ: brain; Vector: pBluescript (modified)

Site 1: DRAII(Y); Site 2: DRAIII(X); Library is cloned directly between the DRAII(Y) and DRAIII(X) sites and has been amplified. Library constructed by S. Lin."

## ORIGIN

Query Match 33.2%; Score 29.2; DB 4; Length 130;

Best Local Similarity 53.4%; Pred. No. 4.4;

RESULT 12  
AZZ261468/c

Query Match 33.2%; Score 29.2; DB 8; Length 166;  
Best Local Similarity 52.7%; Pred. No. 4.5;  
Matches 39; Conservative 7; Mismatches 28; Indels 0; Gaps 0;

Qy 15 UAGGUAGGGGUUAUCACGUUCGGCUAAACGCCAAAGGUCCCCGGUGAAGCCGGGA 74  
Db 69 TAGTCAGCTGTTAGAACGCCTTAACCTAGAAGGCCAAGGCCCTGGTTGATCCCAGCT 128

Qy 75 CUACAAACCAAC 88  
Db 129 CCGAAMAAAAGAAC 142

LOCUS	AZ261468	157 bp	DNA	linear	GSS 26-JUL-2000	SOURCE	Mus musculus (house mouse)
DEFINITION	RPCI-23-153F14.TU RPCI-23 Mus musculus genomic clone					ORGANISM	Mus musculus
ACCESSION	AZ261468					Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
VERSION	AZ261468.1					Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Mus.	
KEYWORDS	GSS.					1 (bases 1 to 156)	
SOURCE	Mus musculus (house mouse)					Zhao, S., Nierman, W., Feldblyum, T., Malek, J., Shatsman, S.,	
ORGANISM	Mus musculus					Akinret, B., Levins, M., McGann, S., Tsengayev, G., Geer, K., Krol, M., de Jong, P. and Fraser, C.M.	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Mus.					Mouse BAC End Sequences from Library RPCI-23	
REFERENCE	1 (bases 1 to 157)					Unpublished (1999)	
AUTHORS	Zhao, S., Nierman, W., Feldblyum, T., Malek, J., Shatsman, S., Akinret, B., Levins, M., McGann, S., Tsengayev, G., Geer, K., Krol, M., de Jong, P. and Fraser, C.M.					Other GSSB: RPCI-23-476F9-TV	
TITLE	Unpublished (1999)					Contact: Shaying Zhao	
JOURNAL	Unpublished (1999)					Department of Eukaryotic Genomics	
COMMENT	Other GSS: RPCI-23-153F14.TV					The Institute for Genomic Research	
	Contact: Shaying Zhao					9712 Medical Center Dr., Rockville, MD 20850, USA	
	Department of Eukaryotic Genomics					9712 Medical Center Dr., Rockville, MD 20850, USA	
	The Institute for Genomic Research					Tel: 301 838 0200	
	9712 Medical Center Dr., Rockville, MD 20850, USA					Fax: 301 838 0208	
	Tel: 301 838 0200					Email: szhao@tigr.org	
	Fax: 301 838 0208					Clones are derived from the mouse BAC library RPCI-23. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources ( <a href="http://bacpac.med.buffalo.edu/orderingframe.htm">http://bacpac.med.buffalo.edu/orderingframe.htm</a> ) or from Resea ch Genetics ( <a href="http://resgen.com">http://resgen.com</a> ). BAC end page: <a href="http://www.tigr.org/tdb/bac_end/intro.html">http://www.tigr.org/tdb/bac_end/intro.html</a>	
	Email: szhao@tigr.org					Plate: 476 row: F column: 9	
	Clones are derived from the mouse BAC 1 library RPCI-23. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources ( <a href="http://bacpac.med.buffalo.edu/orderingframe.htm">http://bacpac.med.buffalo.edu/orderingframe.htm</a> ) or from Resea ch Genetics ( <a href="http://resgen.com">http://resgen.com</a> ). BAC end page: <a href="http://www.tigr.org/tdb/bac_end/intro.html">http://www.tigr.org/tdb/bac_end/intro.html</a>					Seq primer: SP6	
	Plate: 153 row: F column: 14					Class: BAC ends.	
	Fax: 301 838 0208					Location/Qualifiers	
	Seq primer: SP6					1 .166	
	Class: BAC ends.					/organism="Mus musculus"	
FEATURES	Source					/mol_type="genomic DNA"	
	Source					/strain="C57BL/6J"	
	Source					/db_xref="ITAxon:10090"	
	Source					/clone="RPCI-23-476F9"	
	Source					/clone="DH10B"	
	Source					/lab_host="DH10B"	
	Source					/clone_lib="RPCI-23"	
	Source					/note="Organ: Kidney/Brain; Vector: pBACE3.6; Site_1: ECORI; Site_2: EcoRI; Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACE3.6 vector at the BCO RI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)."	
	Source					ORIGIN	
	Source					Query Match Score 29; DB 8; Length 166;	
	Source					Best Local Similarity 52.2%; Pred. No. 5.4;	
	Source					Mismatches 25; Indels 0; Gaps 0;	
	Source					QY 15 UAGUGUGGUGGTTAUACGUTTGCCURACCGGAAAGGUCCGGTACACGGGA 74	
	Source					Db 89 TACTTCAGTTGATAGCATGCCTCTACATGGACATAGCCCTGGTTGATCTCAGAA 148	
	Source					Query Match Score 29; DB 8; Length 157;	
	Source					Best Local Similarity 54.1%; Pred. No. 5.4;	
	Source					Mismatches 20; Indels 0; Gaps 0;	
	Source					QY 26 UUUCGCUUUCGCUUACGCGGAAAGGUCCCCGGGUUCGAAACGACUAGAAAACC 85	
	Source					Db 132 TTAAATATTGCGCTAGCATGCAGAACGCCCTGGGTCAATCTAGCACTATAACC 73	
	Source					RESULT 14	
	Source					BX244513	
	Source					LOCUS Danio rerio genomic clone DKEY-233N3, genomic survey sequence.	
	Source					DEFINITION	
	Source					ACCESSION BX244513	
	Source					VERSION BX244513.1	
	Source					KEYWORDS GSS.	
	Source					ORGANISM Danio rerio (zebrafish)	
	Source					Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cyprinidae; Danio.	
	Source					1 (bases 1 to 175)	
RESULT	13					REFERENCE	
ACCESSION	AZ118437					AZ118437	
LOCUS	AZ118437					LOCUS	
DEFINITION	AZ118437-476F9.TU RPCI-23-476F9, TU RPCI-23 Mus musculus genomic clone RPCI-23-476F9,					DEFINITION	
SOURCE	AZ118437					SOURCE	
VERSION	AZ118437.1					VERSION	
KEYWORDS	GSS.					KEYWORDS	

**JOURNAL** Direct Submission  
Submitted (13-MAR-2003) The Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Unpublished

**COMMENT** This sequence was generated from the T7 end of BAC 23N3. 23N3 is part of the Daniokey BAC Library created by R. Plasterk and N.V. Keygene. Further details:  
<http://www.sanger.ac.uk/projects/Daniokey/>

**FEATURES**

source	1..175	Query Match	33.0%	Score 29;	DB 9;	Length 175;
	/organism="Danio rerio"	Best Local Similarity	50.7%	Pred. No. 5.4;	Indels 0;	Gaps 0;
	/mol_type="genomic DNA"	Matches	35;	Mismatches 9;		
	/db_xref="taxon:7955"	Conservative				
	/clone="DKEY-23N3"	36;				
	/issue_type="Testis"	Best Local Similarity	32.7%	Score 28.8;	DB 7;	Length 158;
	/note="vector pindigorBAC-5336"	Matches	36;	Mismatches 6;	Pred. No. 6.4;	
		Conservative			Indels 22;	Gaps 0;

**ORIGIN**

Qy	12 CCGUAGUGAGUGGUUAUCACTGUTGCTTAACACGGCAAAGGUCCGGGUUCCAAACGG	Query Match	32.7%	Score 28.8;	DB 7;	Length 158;
Db	42 CCATGGCTCAGTGTAGCTTGGACTGTGCATCACACAAGAGGTCCCTTCATAAGTCCC	Best Local Similarity	32.7%	Pred. No. 6.4;	Indels 0;	Gaps 0;
Qy	72 GCACUACAA 80	Matches	36;	Mismatches 6;		
Db	102 GCTGGACAA 110	Conservative				

**RESULT** 15

C0739878	LOCUS	ST0739878	DEFINITION	SILB06a25e03f1 squirrel brain library 1 Spermophilus lateralis mRNA	VERSION	EST 29-JUL-2004
				Clone 25e03 5', mRNA sequence.		
	ACCESSION	C0739878	KEYWORDS	Spermophilus lateralis (golden-mantled ground squirrel)	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Sciuridae; Sciurinae; Spermophilus.
	VERSION	C0739878..1	SOURCE	Spermophilus lateralis	REFERENCE	1 (bases 1 to 158)
	EST:	GI:50827148			AUTHORS	Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W., Rogers,J. and Cossins,A.R.
					TITLE	Microarray analysis of transcriptional changes during hibernation in the golden mantled ground squirrel, Spermophilus lateralis
					JOURNAL	Unpublished (2004)
					COMMENT	Contact: Andrew R. Cossins Laboratory for Environmental Gene Regulation University of Liverpool School of Biological Sciences, The Biosciences Building, Crown Street, Liverpool, United Kingdom, L69 7BZ Tel: +44 (0) 151-795-4510 Fax: +44 (0) 151-795-4431 Email: cossins@liv.ac.uk

Vector has been trimmed from this EST.

Plate: 25 row: e column: 03

Seq primer: TripleX 5' UD (5'-CTCGGAAGGCCATTGTCTGTCTGTT-3-)

High quality sequence stop: 158.

**FEATURES**

source	1..158	Query Match	32.7%	Score 28.8;	DB 7;	Length 158;
	/organism="Spermophilus lateralis"	Best Local Similarity	32.7%	Pred. No. 6.4;	Indels 0;	Gaps 0;
	/mol_type="mRNA"	Matches	36;	Mismatches 6;		
	/db_xref="taxon:76772"	Conservative				
	/clone="125e03"	36;				
	/sex="Male & female"	Best Local Similarity	32.7%	Pred. No. 6.4;	Indels 0;	Gaps 0;
	/issue_type="brain"	Matches	36;	Mismatches 6;		
	/dev_stage="Adult"	Conservative				
	/lab_host="E.coli Electromax DH10B"	36;				
	/clone_lib="squirrel brain library 1"	Best Local Similarity	32.7%	Pred. No. 6.4;	Indels 0;	Gaps 0;



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 01:51:44 ; Search time 852.61 Seconds  
(without alignments)

1774.868 Million cell updates/sec

Title: US-09-974-974-1

Perfect score: 32

Sequence: 1 ggccugccugagagauagacucuu 32

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 1924030

Minimum DB seq length: 0

Maximum DB seq length: 60

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl :

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1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_dat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_to:*
11: gb_sts:*
12: gb_sy:*
13: gb_ur:*
14: gb_vl:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description	
1	32	100.0	32	6	AX453842		AX453842 Sequence	
2	32	100.0	32	6	BD143498		BD143498 Nucleic a	
3	21.4	66.9	33	6	AX453844		AX453844 Sequence	
4	21.4	66.9	33	6	BD143500		BD143500 Nucleic a	
5	17.4	55.6	60	6	C0547198		C0547198 Sequence	
6	17.4	54.4	29	6	BD197186		BD197186 Method an	
c	8	17.4	54.4	40	6	AX453853		AX453853 Sequence
c	9	16.6	51.9	30	6	AR291770		AR291770 Sequence
c	11	16.4	51.2	27	6	BD222050		BD222050 SH2 domain
c	12	16.4	51.2	55	6	BD162072		BD162072 Method fo
c	13	16.2	50.6	39	6	AX211297		AX211297 Sequence
c	14	16.2	50.6	39	6	BD057682		BD057682 Sequence
c	15	16.2	50.6	39	6	BD081512		BD081512 Soluble s
c	16	16.2	50.6	51	6	AR145871		AR145871 Sequence
c	17	16.2	50.6	60	6	CQ550477		CQ550477 Sequence
c	18	16	50.0	29	6	BD199490		BD199490 Method an
c	19	16	50.0	53	6	AR105779		AR105779 Sequence

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## FEATURES

Source  
1. .32  
/organism="synthetic construct"  
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/note="maxizyme-constituting RNA molecule."  
/noe="maxizyme-constituting RNA molecule."

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## Location/Qualifiers

RESULT 1  
AX453842  
LOCUS AX453842 Sequence 1 from Patent EP1213351.  
DEFINITION Sequence 1  
ACCESSION AX453842  
VERSION AX453842.1 GI:21713511  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM synthetic construct  
ARTIFICIAL SEQUENCES.  
REFERENCE 1. Taira,K., Warashina,M. and Warashina,T.  
TITLE Nucleic acid enzymes acquiring an activity for cleaving a target  
RNA by recognising another molecule  
JOURNAL Patent: EP 1213351-A 1 12-JUN-2002;  
(JP) National Institute of Advanced Industrial Science and Technology  
(JP)  
FEATURES  
Source  
1. .32  
/organism="synthetic construct"  
/mo\_type="unassigned RNA"  
/db\_xref="taxon:31630"  
/note="maxizyme-constituting RNA molecule."  
/noe="maxizyme-constituting RNA molecule."

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

ORIGIN  
Query Match 100.0%; Score 32; DB 6; Length 32;  
Best Local Similarity 71.9%; Pred. No. 0.00063;  
Matches 23; Conservative 9; Mismatches 0; Indels. 0; Gaps 0;

Qy 1 GGUCUCGCCUGAUAGAGUGAUGAGCUCUC 32  
Db 1 GGTCCTGGCTGTGAGTGAAGTGCATGCGCTTC 32

RESULT 2  
BD143498  
LOCUS BD143498 Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule.  
DEFINITION BD143498  
ACCESSION BD143498  
VERSION BD143498-1 GI:27849256  
KEYWORDS JP 2002119283-A/1.

SOURCE	synthetic construct	Db	1
ORGANISM	synthetic construct		
REFERENCE	artificial sequences.		
AUTHORS	Taira, K., Warashina, M. and Warashina, T.		
TITLE	Nucleic acid enzyme acquiring other specific		
	activity of cleaving other specific		
JOURNAL	target RNA by recognizing RNA molecule		
	Patent: J P 2002119283-A 1 23-APR-2002;		
	DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL		
TECHNOLOGY	SCIENCE AND P T BAKRIE AND BROTHERS, JAPAN BIO INDUSTRY ASSOCIATION,		
COMMENT	OS Artificial sequence		
	PN JP 2002119283-A/1		
	PD 23-APR-2002		
	PP 13-OCT-2000 JP 2000313320		
	PI KAZUNARI TAIRA, MASAKI WARASHINA, TOMOKO WARASHINA PC		
	C12N15/09, A61K9/127, A61K38/46, A61K48/00, A61P31/12, A61P35/00, PC		
	C12N1/15,		
	PC C12N1/19, C12N1/21, C12N5/10, C12N9/00, C12Q1/25, C12Q1/68, C12N15/		
	PC 00, A61K37/54,		
	PC C12N5/00		
	CC Description of Artificial Sequence: maxizyme-constituting RNA		
	CC molecule		
	CC Location/Qualifiers		
FH	Key 1..32		
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FT	Location/Qualifiers		
	1..32		
FEATURES	Source /organism="synthetic construct"		
	/mol_type="genomic RNA"		
	/db_xref="taxon:32630"		
ORIGIN			
	Query Match 100.0%; score 32; DB 6; Length 32;		
	Best Local Similarity 71.9%; Pred. No. 0.00063;		
Matches	23; Conservative 9; Mismatches 0; Indels 0; Gaps 0;		
Qy	1 GGUCUCGCCUGAUGAGAUGAGCUCUC 32		
Db	1 GETCCCTGGCCATGAGTGTAGCTTC 32		
RESULT 3			
AX453844	AX453844 33 bp RNA	linear	PAT 06-JUL-2002
DEFINITION	Sequence 3 from Patent EP1213351.		
ACCESSION	AX453844		
VERSION	EP 1213351 A 3 12-JUN-2002;		
KEYWORDS	National Institute of Advanced Industrial Science and Technology (JP)		
SOURCE	synthetic construct		
ORGANISM	artificial sequences.		
REFERENCE	1. .33		
AUTHORS	Taira, K., Warashina, M. and Warashina, T.		
TITLE	Nucleic acid enzymes acquiring an activity for cleaving a target		
JOURNAL	RNA by recognising another molecule		
	Patent: EP 1213351 A 3 12-JUN-2002;		
	National Institute of Advanced Industrial Science and Technology (JP)		
FEATURES	Location/Qualifiers		
source	1 /organism="synthetic construct"		
	/mol_type="unassigned RNA"		
	/db_xref="taxon:32630"		
	/note="maxizyme-constituting RNA mol ecule"		
ORIGIN	Query Match 65.9%; score 21.4; DB 6; Length 33;		
	Best Local Similarity 69.6%; Pred. No. 68;		
Matches	16; Conservative 6; Mismatches 1; Indels 0; Gaps 0;		
Qy	1 GGUCUGGCCUGAUGAGAGCAU 23		
	:    :    :    :    :  :		

ORIGIN /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 55.6%; Score 17.8; DB 6; Length 60;  
 Best Local Similarity 71.4%; Pred. No. 3.5e+03;  
 Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGUCCTGGCCUGAAGAGAGUG 21  
 Db 37 GTTCTTGCTGAAAGACAGTGT 57

RESULT 6  
 BD197186 LOCUS BD197186 RNA linear PAT 17-JUL-2003  
 DEFINITION Method and reagent for treating diseases or conditions concerning  
 molecule participating in vasoconstrictive response.  
 ACCESSION BD197186  
 VERSION GI:330069556  
 KEYWORDS JP 2002309721-A/212.  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.  
 REFERENCE 1 (bases 1 to 29)  
 AUTHORS Pavco, P.A., Roberts, E., Jarvis, T., Coeshott, C. and Mcswiggen, J.A.  
 TITLE Method and reagent for treating diseases or conditions concerning  
 molecule participating in vasoconstrictive response  
 JOURNAL Patent: JP 2002309721-A 2002-04-20-APR-2002;  
 COMMENT RIBOZYME PHARMACEUTICALS INC  
 OS Artificial Sequence  
 PN JP 2002309721-A/212  
 PD 02-APR-2002  
 PR 24-MAR-1999 JP 20000541291  
 PR 27-MAR-1998 US 60/079678  
 PI PAMELA A PAVCO, ELLISABETH ROBERTS, THALE JARVIS, CLAIRE COESHOTT,  
 PI JAMES A MCSWIGGEN  
 PC C12N15/09, A61K31/7088, A61K31/7125, A61K48/00, A61P3/10, A61P17/06, PC  
 A61P29/00, PC A61P43/00, C12N5/10, C12N9/00//A61K35/76, C12N15/00, PC  
 C12N5/00  
 CC Synthesized Hammerhead Ribozyme  
 CC The letter 'n' stands for any base or bases forming a loop or  
 CC stem-loop  
 CC that may contain multiple nucleic acid analogues or 2'- CC  
 deoxynucleotides.

EH Key Location/Qualifiers  
 FT source 1..29 /organism='Artificial Sequence'.  
 FT source 1..29 Location/Qualifiers  
 /organism="synthetic construct"  
 /mol\_type="genomic RNA"  
 /db\_xref="taxon:32630"

ORIGIN /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 54.4%; Score 17.4; DB 6; Length 29;  
 Best Local Similarity 53.6%; Pred. No. 5.4e+03;  
 Matches 15; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

Qy 3 UCCUGGCCUGAAGAGAGUGAUAGAGCUU 30  
 Db 2 TCTTGGCTTGATGAGNCGAAGAGTTCT 29

RESULT 7  
 AX453853 LOCUS AX453853 RNA linear PAT 06-JUL-2002  
 DEFINITION Sequence 12 from Patent EP1213351.  
 ACCESSION AX453853  
 VERSION GI:21713522  
 KEYWORDS

SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1 Taira, K., Warashina, M. and Warashina,T.  
 AUTHORS Nucleic acid enzymes acquiring an activity for cleaving a target  
 TITLE rna by recognising another molecule  
 JOURNAL National Institute of Advanced Industrial Science and Technology  
 (JIP)

FEATURES Location/Qualifiers  
 1..40 /organism="synthetic construct"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32630"  
 /note="wild type ribozyme"

ORIGIN /mol\_type="unassigned RNA"  
 /note="wild type ribozyme"

Query Match 54.4%; Score 17.4; DB 6; Length 40;  
 Best Local Similarity 63.0%; Pred. No. 5.4e+03;  
 Matches 17; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GUCCUGGCCUGAAGAGAGUGAUAGAGCUC 27  
 Db 1 GTTCCCTGGCTGATGGGCCAAGGC 27

RESULT 8  
 AR291770/c LOCUS AR291770 Sequence 3505 from patent US 6537751.  
 DEFINITION AR291770/1 Biallelic markers for use in constructing a high density  
 Matches AR291770/1 sequence map of the human genome  
 ACCESSION GI:31279054  
 VERSION  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 47) Cohen, D., Chumakov, I. and Blumenfeld, M.  
 AUTHORS Cohen, D., Chumakov, I. and Blumenfeld, M.  
 TITLE Biallelic markers for use in constructing a high density  
 sequence map of the human genome  
 JOURNAL Patent: US 6537751-A 3505-25-MAR-2003;  
 FEATURES Location/Qualifiers  
 1..47 /organism="unknown"  
 /mol\_type="genomic DNA"

ORIGIN /mol\_type="genomic DNA"  
 /note="Unknown."

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 Best Local Similarity 51.7%; Pred. No. 5.5e+03;  
 Matches 15; Conservative 7; Mismatches 7; Indels 0; Gaps 0;

Qy 2 GUCCUGGCCUGAAGAGAGUGAUAGAGCUU 30  
 Db 32 GTTCCATGCMTCATGATGCTGAGCTCT 4

RESULT 9  
 AR179707 LOCUS AR179707 Sequence 7 from patent US 6326482.  
 DEFINITION AR179707/1 Biallelic markers for use in constructing a high density  
 Matches AR179707/1 sequence map of the human genome  
 ACCESSION GI:20521262  
 VERSION  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 30) Stewart, T.A. and Lu, Y.  
 AUTHORS Stewart, T.A. and Lu, Y.  
 TITLE SH2 domain-containing peptides  
 JOURNAL Patent: US 6326482-A 04-DEC-2001;  
 FEATURES Location/Qualifiers  
 1..30 source

/organism="unknown"  
 /mol\_type="unassigned DNA"

**ORIGIN**

Query Match 51.9%; Score 16.6; DB 6; Length 30;  
 Best Local Similarity 65.2%; Pred. No. 1.3e+04;  
 Matches 15; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 7 GGCCUGAUGAGUGAUGAGGCU 29  
 Db 6 GGCTCTTGAAAGTGCAGAGCTC 28

RESULT 10  
 BD22050 LOCUS SH2 domain-containing peptide. 30 bp  
 DEFINITION BD22050  
 ACCESSION BD22050\_1 GI:33031820  
 VERSION  
 KEYWORDS synthetic construct  
 SOURCE  
 ORGANISM synthetic construct  
 artificial sequence.  
 1 (bases 1 to 30)  
 Stewart, T.A. and Iu, Y.  
 AUTHORS  
 TITLE Patent: JP 2002512032-A 4 23-APR-2002;  
 JOURNAL GENENTECH INC  
 COMMENT OS Artificial Sequence  
 PN JP 2002512032-A/4  
 PD 23-APR-2002  
 PF 23-APR-1998 JP 2000544799  
 PR 23-APR-1998 US 60/082767,22-D8C-1998 US 60/113296 PI  
 TIMOTHY A. STEWART, YANNETI LU  
 PC C12N15/09, C07K14/47, C07K16/18, C07K16/42, C07K19/00, C12N1/19, PC  
 C12N1/21, C12N5/10, C12P21/02, C12P21/08, C12Q1/02, C12Q1/68, G01N33/53, PC  
 G01N33/53  
 PC G01N33/68, C12N15/00, C12N5/00  
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 FH Location/Qualifiers  
 Key 1..30  
 FT /organism=,Artificial Sequence'.  
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 FEATURES source  
 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"

MITSUBISHI CHEMICAL CORP  
 OS Artificial Sequence  
 PN JP 200219134-A/8  
 PD 09-JUL-2002  
 PF 26-DEC-2000 JP 2000394675  
 PI MASAHITO TANAKA AKIHIKO KIKUCHI  
 PC C12N15/09, C07K14/21, C07K14/47, C07K16/40, C07K19/00, C12M1/40, PC  
 PC C12P21/02, G01N33/53 G01N33/57//C07K16/12 C12N15/00 C12N15/00  
 CC Description of Artificial Sequence:synthesized FH Key  
 Location/Qualifiers  
 source 1..27  
 /organism='Artificial Sequence'.

COMMENT  
 FEATURES SOURCE  
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 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"

**ORIGIN**

Query Match 51.2%; Score 16.4; DB 6; Length 27;  
 Best Local Similarity 53.8%; Pred. No. 1.6e+04;  
 Matches 14; Conservative 6; Mismatches 6; Indels 0; Gaps 0;

Qy 7 GGCCUGAUGAGUGAUGAGCUCUC 32  
 Db 27 GGCTGAAGCAGTCGTAACATCTC 2

RESULT 12  
 AX211297 LOCUS Sequence 12 from Patent WO0015937.  
 DEFINITION AX211297  
 ACCESSION AX211297  
 VERSION AX211297.1 GI:15523706  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.  
 REFLINE 1  
 REFERENCE Ulvskov,P., Shols,H., Visser,R., Borckhardt,B., Sorensen,S.O.,  
 AUTHORS Omen,R., Vincken,J.P., McCain,M., Skjot,M., Bush,M., Voragen,C.D.,  
 and Beldman,G.  
 TITLE Method for remodelling cell wall polysaccharide structures in  
 plants  
 JOURNAL Patent: WO 015937-A 12 16 AUG 2001;  
 Ulvskov, Peter (DK) ; Shols, Henk (NL) ; Visser, Richard (NL) ;  
 Borckhardt, Bernhard (DK) ; Sorensen, Susanne O. (DK) ; Omen,  
 Ronald (NL) ; Vincken, Jean-Paul (NL) ; McCain, Maureen (GB) ;  
 Skjot, Michael (DK) ; Bush, Max (GB) ; Voragen, Chantal Doeswijk  
 (NL) ; Beldman, Gerrit (NL)  
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 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:32630"  
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**ORIGIN**

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 Best Local Similarity 53.8%; Pred. No. 1.6e+04;  
 Matches 14; Conservative 6; Mismatches 6; Indels 0; Gaps 0;

Qy 5 CGGCCUGAUGAGUGAUGAGCUCU 30  
 Db 15 CTGGCTGTGTGAGGATGAACIT 40

RESULT 13  
 AR213624 LOCUS Sequence 58 from patent US 6405989.  
 DEFINITION linear  
 /organism="unassigned DNA"

**ORIGIN**

Query Match 51.2%; Score 16.4; DB 6; Length 55;  
 Best Local Similarity 53.8%; Pred. No. 1.6e+04;  
 Matches 14; Conservative 6; Mismatches 6; Indels 0; Gaps 0;

Qy 5 CGGCCUGAUGAGUGAUGAGCUCU 30  
 Db 15 CTGGCTGTGTGAGGATGAACIT 40

RESULT 13  
 AR213624 LOCUS Sequence 58 from patent US 6405989.  
 DEFINITION linear  
 /organism="unassigned DNA"

REFERENCE  
 AUTHORS Tanaka, M. and Kikuchi, A.  
 TITLE Method for detecting or quantitating protein  
 JOURNAL Patent: JP 2002191364-A 8 09-JUL-2002;

ACCESSION	AR213624	GI:23310903	ACCESSION	BD081512	GI:22627115
KEYWORDS	AR213624..1		VERSION	BD081512..1	JP:2001519143/A/58;
SOURCE	Unknown.		KEYWORDS		synthetic construct
ORGANISM	Unclassified.		SOURCE		synthetic construct
REFERENCE	1. (bases 1 to 39)		REFERENCE	1. (bases 1 to 39)	artificial sequences.
AUTHORS	Davis,M.E., White,R.A., Saunders,C., Polin,R., Kristiansen,K., Ballane,M. and Grossman,G.		AUTHORS	Weidan, J.A., Card,K.F. and Wong,H.C.	
TITLE	Rollable sports base		TITLE	Soluble single-chain T-cell receptor proteins	
JOURNAL	Patent: US 6405989-A 58 18-JUN-2002;		JOURNAL	Patent: JP 2001519143-A 58 23-OCT-2001;	
FEATURES	Location/Qualifiers		COMMENT	SUNOL MOLECULAR CORP	
source	1..39 /organism="unknown" /mol_type="genomic DNA"		COMMENT	OS Artificial Sequence	
ORIGIN			COMMENT	PN JP 2001519143-A/58	
Query Match	50.6%	Score 16.2; DB 6; Length 39;	COMMENT	PN 23-OCT-2001	
Best Local Similarity	62.1%;	Pred. No. 2e+04; Indels 0; Gaps 0;	FEATURES	PF 28-SEP-1998 JP 20000514936	
Matches	18; Conservative	3; Mismatches 8; Indels 0; Gaps 0;	FEATURES	PR 02-OCT-1997 US 08/941,086	
Qy	1	GGCCUGGCCGCUAGAGGUAGAAGAGCTC 29	FEATURES	PI JON A WEIDANZ, KIMBERLYN F CARD, HING C WONG	
Db	4	GGGCCGGCGCTGCTGAGGTGAGCATCCC 32	FEATURES	PC C12N15/09 A61K39/00, A61K39/395, A61P43/00, C07K14/725, C07K16/28,	
RESULT 14			FEATURES	PC C12P1/02//	
BD057682	BD057682	39 bp DNA linear PAT 27-AUG-2002	FEATURES	PC C12P1/08, C12N15/00, A61K37/02	
DEFINITION	Fusion proteins comprising bacteriophage coat protein and a single-chain T cell receptor.		FEATURES	CC Description of Artificial Sequence: primer	
ACCESSION	BD057682		FEATURES	FH Key	
VERSION	BD057682..1	GI:22603288	FEATURES	FT source	/organism='Artificial Sequence'.
KEYWORDS	JP 2001514503-A/58.		FEATURES	FT	
SOURCE	Aspergillus tubingensis		FEATURES	FT source	
ORGANISM	Aspergillus tubingensis		FEATURES	FT source	
REFERENCE	1. (bases 1 to 39)		FEATURES	FT source	
AUTHORS	Weidan, J.A., Card,K.F. and Wong,H.C.		FEATURES	FT source	
TITLE	Fusion proteins comprising bacteriophage coat protein and a single-chain T cell receptor		FEATURES	FT source	
JOURNAL	Patent: JP 2001514503-A 58 11-SEP-2001;		FEATURES	FT source	
COMMENT	PN JP 2001514503-A/58		FEATURES	FT source	
	PD 11-SEP-2001		FEATURES	FT source	
	PF 05-MAR-1998 JP 1998537984		FEATURES	FT source	
	FR 07-MAR-1997 US 08/813791		FEATURES	FT source	
	PI JON A WEIDANZ, KIMBERLYN F CARD, HING C WONG		FEATURES	FT source	
	PC C12Q1/68, C12N7/01, C12N15/70		FEATURES	FT source	
	CC Strandedness: Single;		FEATURES	FT source	
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Best Local Similarity	62.1%;	Pred. No. 2e+04; Indels 0; Gaps 0;	FEATURES	FT source	
Matches	18; Conservative	3; Mismatches 8; Indels 0; Gaps 0;	FEATURES	FT source	
Qy	1	GGCCUGGCCGCUAGAGGUAGAAGAGCTC 29	FEATURES	FT source	
Db	4	GGGCCGGCGCTGCTGAGGTGAGCATCCC 32	FEATURES	FT source	
RESULT 15			FEATURES	FT source	
BD081512	BD081512	39 bp DNA linear PAT 27-AUG-2002	FEATURES	FT source	
DEFINITION	Soluble single-chain T-cell receptor proteins.		FEATURES	FT source	



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## OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 01:51:44 ; Search time 719.39 Seconds

Perfect score: 27 1 gucugacuguncaucgaaaccgggucc 27 (without alignments)

Sequence: US-09-974-974-2 1774.868 Million cell. updates/sec

Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 1924030

Minimum DB seq length: 0 Maximum DB seq length: 60

Post-processing: Minimum Match 0% Maximum Match 100%

Listing First 45 summaries

## Database :

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2: 9b_hng:*
3: 9b_in:*
4: 9b_cm:*
5: 9b_cv:*
6: 9b_pat:*
7: 9b_ph:*
8: 9b_ppl:*
9: 9b_pr:*
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11: 9b_sts:*
12: 9b_sy:*
13: 9b_mn:*
14: 9b_vt:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	100.0	27	6 AX453843	AX453843 Sequence
2	2	100.0	27	6 BD143499	BD143499 Nucleic acid sequence
3	18	66.7	29	6 AX453845	AX453845 Sequence
4	18	66.7	29	6 BD143501	BD143501 Nucleic acid sequence
c	5	63.0	44	6 AR183095	AR183095 Sequence
c	6	16	59.3	6 COT760641	COT760641 Sequence
c	7	15.6	57.8	45 9 HSCDB5716	H. sapiens m 250829 Sequence
c	8	15.2	56.3	43 6 AX297640	AX297640 Sequence
c	9	15	55.6	24 6 AX45798	AX45798 Sequence
c	10	15	55.6	51 6 CQ007470	CQ007470 Sequence
c	11	14.8	54.8	32 6 AR090340	AR090340 Sequence
c	12	14.8	54.8	32 6 AR197375	AR197375 Sequence
c	13	14.8	54.8	32 6 AR259529	AR259529 Sequence
c	14	14.8	54.8	33 6 BD274953	BD274953 Sequence
c	15	14.8	54.8	33 6 AR74082	AR74082 Sequence
c	16	14.6	54.1	22 6 AR078172	AR078172 Sequence
c	17	14.6	54.1	28 6 AX351504	AX351504 Sequence
c	18	14.6	54.1	10 AF224227	AF224227 Mus musculus
c	19	14.4	53.3	58 6 AX773271	AX773271 Sequence

ALIGNMENTS					
RESULT 1					
AX453843					
LOCUS	Sequence 2 from Patent EP1213351.	27 bp	RNA	linear	PAT 06-JUL-2002
DEFINITION					
ACCESSION	AX453843				
VERSION	AX453843.1	GI:21713512			
KEYWORDS					
SOURCE					
ORGANISM					
Synthetic construct					
artificial sequences.					
REFERENCE					
AUTHORS	Taira,K., Warashina,M. and Warashina,T.				
TITLE	Nucleic acid enzymes acquiring an activity for cleaving a target RNA by recognising another molecule				
JOURNAL	Patent: EP 1213351-A 2 12-JUN-2002; National Institute of Advanced Industrial Science and Technology (JP)				
FEATURES					
source					
1. 27					
/organism="synthetic construct"					
/mol type="unassigned RNA"					
/db_xref="taxon:32330"					
/note="maxizyme-constituting RNA molecule"					

ORIGIN					
Query Match	100.0%	Score 27;	DB 6;	Length 27;	
Best Local Similarity	74.1%	Pred. No. 0.013;			
Matches	20;	Conservative Matches	7;	Mismatches 0;	Gaps 0;
Qy	1 GUCUGACUGUCAUCGAAACGGGUCC	27			
Db	1 GTCGTAGTTCATCAAACGGTCC	27			
RESULT 2					
BD143499					
LOCUS					
DEFINITION					
Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule.					
ACCESSION	BD13499				
VERSION	BD13499.1	GI:27349257			
KEYWORDS	JP 2002119283-A/2.				

SOURCE	synthetic construct	Db	12 TTCTATCGAAACCGGGTCC 29
ORGANISM	artificial sequences.		
REFERENCE	1 (bases 1 to 27)	RESULT 4	
AUTHORS	Taira,K., Warashina,M. and Warashina,T.	BD143501	29 bp RNA linear PAT 17-JAN-2003
TITLE	Nucleic acid enzymes acquiring activity of cleaving other specific target RNA by recognizing RNA molecule	LOCUS	BD143501
JOURNAL	PATENT: JP 2002119283-A 2 23-APR-2002;	DEFINITION	Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule.
COMMENT	DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND P T BAKRIE AND BROTHERS, JAPAN BIO INDUSTRY ASSOCIATION, OS Artificial Sequence	ACCESSION	BD143501
TECHNOLOGY	PN JP 2002119283-A/2	VERSION	BD143501.1 GI:27849259
PD 23-APR-2002	PPF 13-OCT-2000 JP 2000313320	SOURCE	JP 2002119283-A/4
PI KAZUNARI TAIRA, MASAKI WARASHINA, TOMOKO WARASHINA, PC C12N15/09, A61K9/127, A61K38/46, A61P31/12, A61P35/00, PC C12N1/15, C12N1/19 C12N1/21, C12N5/10, C12N9/00, C12Q1/25, C12N15/00, A61K37/54, C12N5/00	ORGANISM	synthetic construct	
CC Description of Artificial Sequence: maxizyme-constituting RNA molecule	ARTIFICIAL SEQUENCE	artificial sequences.	1 (bases 1 to 29)
PH Key	Location/Qualifiers	REFERENCE	1 (bases 1 to 29)
FT source	1..27 /organism='Artificial Sequence'.	AUTHORS	Taira,K., Warashina,M. and Warashina,T.
FT source	1..27 /organism='synthetic construct'	TITLE	Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule
FT source	/mol_type="genomic RNA"	JOURNAL	PATENT: JP 2002119283-A 23-APR-2002;
ORIGIN	/db_xref="taxon:3263 0"	DIRECTOR	DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND P T BAKRIE AND BROTHERS, JAPAN BIO INDUSTRY ASSOCIATION, TECHNOLOGY
FEATURES	Query Match 100.0%; Score 27; DB 6; Length 27; Best Local Similarity 74.1%; Pred. No. 0.013; Matches 20; Conservative 7; Mismatches 0; Indels 0; Gaps 0; /organism="synthetic construct"	COMMENT	OS Artificial Sequence
source	1 GUUCGACUGUCAUGGAACCGGGGUCC 27	PN	JP 2002119283-A/4
ORIGIN	1 GTCTGTACTGTTCATCGAAACCGGGTCC 27	PD	23-APR-2002
RESULT 3 AX453845	AX453845 29 bp RNA linear PAT 06-JUL-2002	PF	2000313320
LOCUS	Sequence 4 from Patent EP1213351.	CC	PI KAZUNARI TAIRA, MASAKI WARASHINA, TOMOKO WARASHINA, PC C12N15/09, A61K9/127, A61K38/46, A61P31/12, A61P35/00, PC C12N1/15, C12N1/19, C12N1/21, C12N5/10, C12N9/00, C12Q1/25, C12N15/00, A61K37/54, C12N5/00
DEFINITION	AX453845	KEYWORD	PC C12N5/00
ACCESSION	AX453845	LOCATION	CC Description of Artificial Sequence: maxizyme-constituting RNA molecule
VERSION	AX453845.1 GI:21713514	QUALIFIER	CC Key
KEYWORDS	synthetic construct	LOCATION/QUALIFIERS	FH Key
SOURCE	synthetic construct	LOCATION/QUALIFIERS	FT source 1..29 /organism='Artificial Sequence'
ORGANISM	artificial sequences.	LOCATION/QUALIFIERS	FT source 1..29 /organism='synthetic construct'
REFERENCE	1 Taira,K., Warashina,M. and Warashina,T.	FEATURES	FT source 1..29 /organism="genomic RNA" /db_xref="taxon:3263 0"
AUTHORS	Nucleic acid enzymes acquiring an activity for cleaving a target rna by recognising another molecule	ORIGIN	ORIGIN
TITLE	PATENT: EP 1213351-A 4 12-JUN-2002;	RESULT 5	RESULT 5
JOURNAL	National Institute of Advanced Industrial Science and Technology (JP)	LOCUS	AR133095/C
FEATURES	Location/Qualifiers	DEFINITION	AR133095
source	1..29 /organism="synthetic construct"	ACCESSION	AR133095 Sequence 72 from patent US 6340461.
ORIGIN	/mol_type="unassigned RNA" /db_xref="taxon:3263 0"	VERSION	AR133095 AR133095.1 GI:20226688
Query Match 66.7%; Score 18; DB 6; Length 29; Best Local Similarity 77.8%; Pred. No. 4.9e-02; Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0; /note="maxizyme-constituting RNA mol ecule"	KEYWORDS	KEYWORD	KEYWORD
ORIGIN	10 UCUAUGAAAACCGGGGUCC 27	LOCATION	Unknown. Unknown. Unknown. Unknown. Unclassified.
Query Match 66.7%; Score 18; DB 6; Length 29; Best Local Similarity 77.8%; Pred. No. 4.9e-02; Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0; /note="maxizyme-constituting RNA mol ecule"	FEATURES	REFERENCE	1 (bases 1 to 44)
ORIGIN	10 UCUAUGAAAACCGGGGUCC 27	AUTHORS	Terman,D.Stephen.
Query Match 66.7%; Score 18; DB 6; Length 29; Best Local Similarity 77.8%; Pred. No. 4.9e-02; Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0; /note="maxizyme-constituting RNA mol ecule"	JOURNAL	TITLE	Superantigen based methods and compositions for treatment of diseases
ORIGIN	10 UCUAUGAAAACCGGGGUCC 27	FEATURES	JOURNAL FEATURES
Query Match 66.7%; Score 18; DB 6; Length 29; Best Local Similarity 77.8%; Pred. No. 4.9e-02; Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0; /note="maxizyme-constituting RNA mol ecule"	source	ORIGIN	1..44 /organism="unknown" /mol_type="unassigned DNA"



**FEATURES**

source Location/Qualifiers  
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/org\_name="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:12630"  
/note="Computer Generated Probe Sequence."

**ORIGIN**

Query Match Score 15; DB 6; Length 24;  
Best Local Similarity 60.9%; Pred. No. 1.6e+04;  
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0; PAT 20-APR-2002

Qy 3 CUGACUGUCAUCGAAACCGGGU 25  
Db 1 CTGACTCTCATCTCGAAAACGGGT 23

RESULT 10  
CQ007470/c  
DEFINITION Sequence 6110 from Patent WO0147944.  
ACCESION CQ007470  
VERSION CQ007470.1 GI:41014119  
KEYWORDS Nucleic acids containing single nucleotide polymorphisms and methods of use thereof  
SOURCE Homo sapiens (human)  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Shimkets, R.A. and Leach, M.  
AUTHORS 1  
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof  
JOURNAL Patent: WO 0147944-A 6110 05-JUL-2001;  
Curagen Corporation (US)  
FEATURES source 1..51  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
/note="Accession number cg43988934"

**ORIGIN**

Query Match Score 15; DB 6; Length 51;  
Best Local Similarity 60.9%; Pred. No. 1.8e+04;  
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0; PAT 07-SEP-2000

Qy 1 GUUCAGACUGUCAUCGAAACCGG 23  
Db 23 GCCTGGATGGCTTCGAAACCGG 1

RESULT 11  
AR090340  
LOCUS Sequence 460 from patent US 5994076.  
DEFINITION AR090340  
ACCESION AR090340.1 GI:100017095  
VERSION .  
KEYWORDS Unknown.  
SOURCE Unclassified.  
ORGANISM Chenchik,A., Jokhadze,G. and Bibilashvili,R.  
FEATURES source 1..32  
/organism="unknown"  
/mol\_type="unassigned DNA"

**ORIGIN**

Query Match Score 14.8; DB 6; Length 32;  
Best Local Similarity 53.8%; Pred. No. 2.1e+04;  
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0; PAT 17-JUL-2003

Qy 2 UCUGACUGUCAUCGAAACCGGGUCC 27  
Db 6 TCAGAATCTCCATTCAAACAGGTCC 31

RESULT 12  
AR197375  
LOCUS AR197375  
DEFINITION Sequence 460 from patent US 6352829.  
ACCESION AR197375  
VERSION AR197375.1 GI:20247224  
KEYWORDS Unknown.  
SOURCE Unclassified.  
ORGANISM Chenchik,A., Jokhadze,G. and Bibilashvili,R.  
FEATURES 1 (bases 1 to 32)  
/mol\_type="unassigned DNA"

REFERENCE 1 (bases 1 to 32)  
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvili,R.  
TITLE Methods of assaying differential expression  
JOURNAL Patent: US 6352829-A 460 05-MAR-2002;  
FEATURES Source 1..32  
/organism="unknown"  
/mol\_type="unassigned DNA"

**ORIGIN**

Query Match Score 14.8; DB 6; Length 32;  
Best Local Similarity 53.8%; Pred. No. 2.1e+04;  
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0; PAT 20-DEC-2002

Qy 2 UCUGACUGUCAUCGAAACGGGUCC 27  
Db 6 TCAGAATCTCCATTCAAACAGGTCC 31

RESULT 13  
AR259529  
LOCUS AR259529  
DEFINITION Sequence 460 from patent US 6489455.  
ACCESION AR259529  
VERSION AR259529.1 GI:27310040  
KEYWORDS Unknown.  
SOURCE Unclassified.  
ORGANISM Chenchik,A., Jokhadze,G. and Bibilashvili,R.  
FEATURES Source 1..32  
/organism="unknown"  
/mol\_type="genomic DNA"

**ORIGIN**

Query Match Score 14.8; DB 6; Length 32;  
Best Local Similarity 53.8%; Pred. No. 2.1e+04;  
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0; PAT 17-JUL-2003

Qy 2 UCUGACUGUCAUCGAAACGGGUCC 27  
Db 6 TCAGAATCTCCATTCAAACAGGTCC 31

RESULT 14  
BD274953/c  
LOCUS BD274953  
DEFINITION POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY.  
ACCESION BD274953  
VERSION BD274953.1 GI:33084721  
KEYWORDS JP 2002338786-A/17,  
synthetic construct  
SOURCE

ORGANISM synthetic construct  
 REFERENCE 1 (bases 1 to 33)  
 AUTHORS Shimkets,R.A.  
 TITLE POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY  
 JOURNAL Patent : JP 20053878-A 17-19-NOV-2002;  
 COMMENT Curagen Corporation, Richard A Shimkets  
 OS Artificial Sequence  
 PN UP 200238786-A/17  
 PD 19-NOV-2002  
 PF 09-MAR-2000 JP 20000603363  
 PR 08-MAR-2000 US 09/520781,09-MAR-1999 US 60/123667 PI  
 Richard a shimkets  
 CC Description of Artificial Sequence: Primer  
 FH Key Location/Qualifiers  
 FEATURS source 1.-33  
 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="itaxon:32630"

ORIGIN

Query Match	Score 14.8;	DB 6;	Length 33;
Best Local Similarity	54.8%;	Pred. No. 2.1e+04;	
Matches	14;	Conservative	5; Mismatches 7;
			Indels 0; Gaps 0;

Qy 2 UCUGACUGUCAUCGAAACCGGUCC 27  
 Db 26 TCAGAATCTCTGGAAACCGGATCC 1

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RESULT 15

AR474082/C	AR474082	33 bp	DNA	linear	PAT 20-FEB-2004
LOCUS	Sequence 33 from patent US 6698866.				
DEFINITION					
ACCESSION	AR474082				
VERSION	AR474082.1				
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 33)				
AUTHORS	Shimkets,R.A.				
TITLE	Polynuclotides and proteins encoded thereby				
JOURNAL	Patent: US 6698866-A 33-10-FEB-2004;				
FEATURES	Location/Qualifiers				
source	1.-33				
	/organism="unknown"				
	/mol_type="genomic DNA"				

ORIGIN

Query Match	Score 14.8;	DB 6;	Length 33;
Best Local Similarity	54.8%;	Pred. No. 2.1e+04;	
Matches	14;	Conservative	5; Mismatches 7;
			Indels 0; Gaps 0;

Qy 2 UCTGACUGUCAUCGAAACCGGUCC 27  
 Db 26 TCAGAATCTCTGGAAACCGGATCC 1

Search completed: October 31, 2004, 03:24:23  
 Job time : 722.39 secs

